ORDER NO. SD830726080

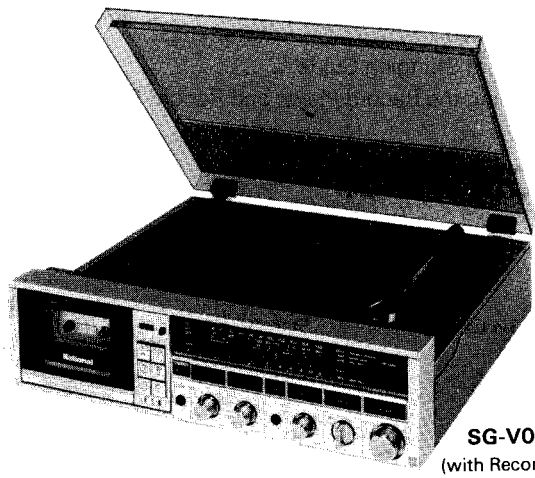
Service Manual

SW1/SW2/MW/FM STEREO RADIO WITH CASSETTE TAPE DECK AND RECORD PLAYER OR RECORD CHANGER

Stereo Music System

SG-V01 (G)

SG-V11 (G)



SG-V01 (G)
(with Record Player)

SG-V11 (G)
(with Record Changer)

Specifications

AMPLIFIER SECTION

Power Output	PMPO:	60W (30W × 2)
	RMS:	17W (8.5W × 2)
	One channel driven, THD 10%, 8Ω	
Output Impedance	8Ω	
Frequency Response	60 Hz – 20 kHz, –3 dB	
Input sensitivity & Impedance:		
Mic	1.5 mV, 15 kΩ	
Tone Control	+4 dB, –15 dB at 10 kHz	

FM TUNER SECTION

Frequency Range	87.5 MHz ~ 108 MHz
Intermediate Frequency (IF)	10.7 MHz
Sensitivity	6 μV (S/N 30 dB, Mod. 30%)
Image Ratio	40 dB (98 MHz)

AM TUNER SECTION

Frequency Range	MW:	525 kHz ~ 1605 kHz (571 m ~ 187 m)
	SW_1:	2.3 MHz ~ 7 MHz (130 m ~ 42.9 m)
	SW_2:	7 MHz ~ 22 MHz (42.9 m ~ 13.6 m)
Intermediate Frequency (IF)	455 kHz	
Sensitivity	MW:	200 μV/m (1 MHz)
	SW_1:	8 μV (4 MHz)
	SW_2:	11 μV (12 MHz)
Image Ratio	MW:	35 dB (1 MHz)
	SW_1:	20 dB (4 MHz)
	SW_2:	9 dB (12 MHz)

PHONO SECTION

Turntable System	Belt Drive, Fully Automatic Turntable
Turntable Size	28 cm (11")
Turntable Speed	33-1/3 rpm and 45 rpm
Phono Motor	Electro Governor DC Motor
Cartridge	Ceramic Cartridge (EPC13STH)
Stylus	Sapphire (EPS41ST)

TAPE DECK SECTION

Deck System	Full Auto-Stop Cassette System with Pause Control
Track System	4-Track, 2-Channel
Recording System	AC Bias (60 kHz)
Erasing System	AC Erase (60 kHz)
Tape Speed	4.75 cm/sec. (1-7/8 i.p.s.)
Frequency Response	40 Hz ~ 10 kHz
Wow & Flutter	0.15% (WRMS)

GENERAL

Power Consumption	30W
Power Supply	AC 110V, 120V, 220V, 240V, 50/ 60 Hz
SG-V01 (G)	
Dimensions (W × H × D)	450 mm × 127 mm × 412 mm (17-23/32") × (5-0/0") × (16-15/64")
Weight	5.3 kg (11.7 lbs.)
SG-V11 (G)	
Dimensions (W × H × D)	450 mm × 167 mm × 412 mm (17-23/32") × (6-37/64") × 16–15/64")
Weight	5.7 kg (12.6 lbs.)

* Specifications are subject to change without notice for further improvement.

National

MC-Service

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

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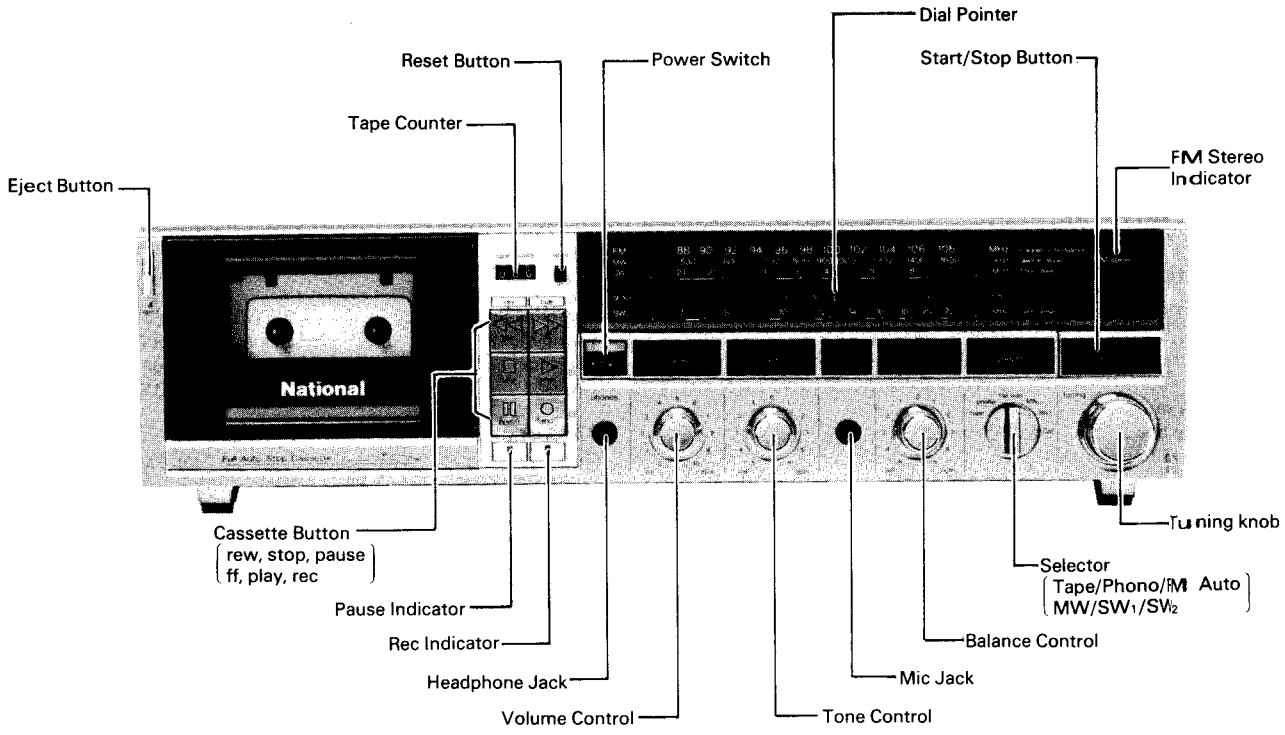
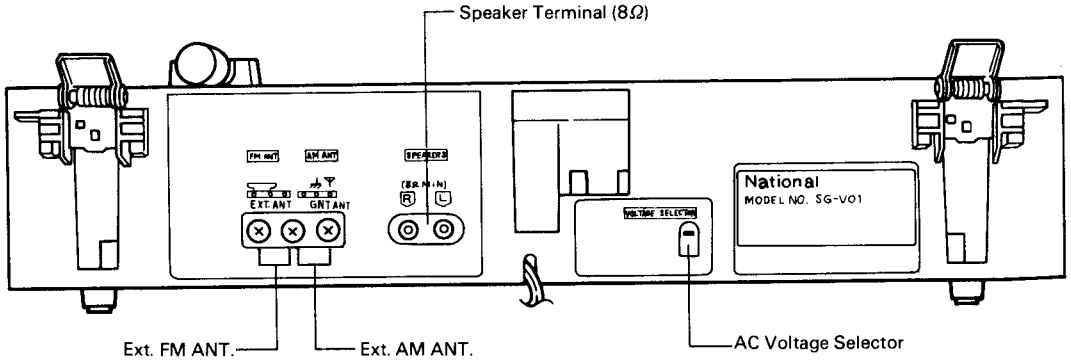
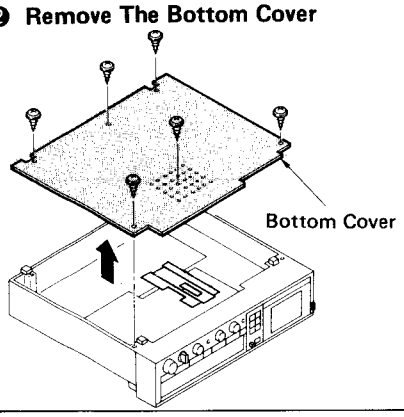
LOCATION OF CONTROLS



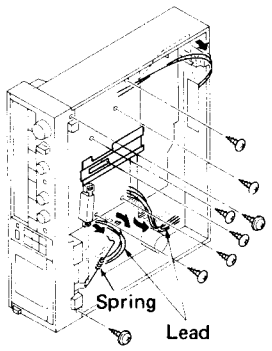


DISASSEMBLY INSTRUCTIONS

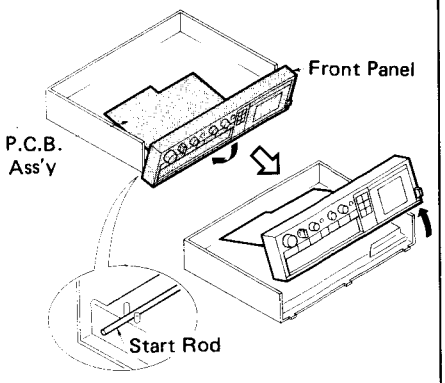
❶ Remove The Dust Cover
❷ Remove The Bottom Cover



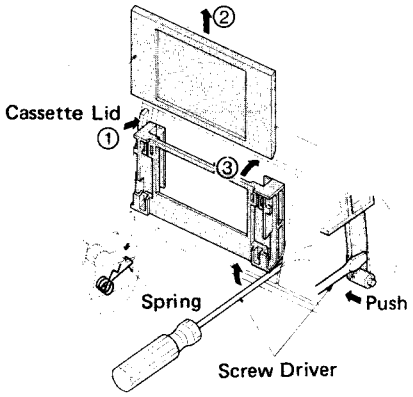
❸ Remove The Screw, Lead and Spring



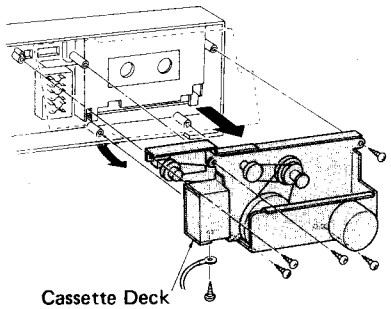
❹ Remove The Front Panel W/P.C.B.



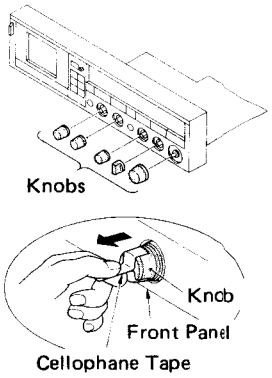
❺ Remove The Cassette Lid



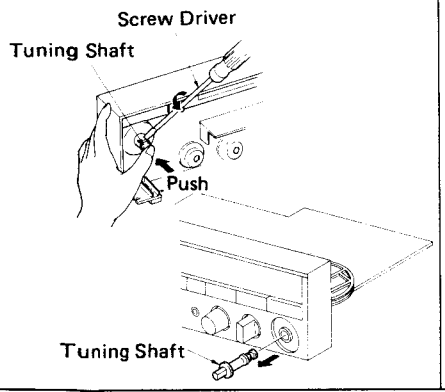
❻ Remove The Cassette Deck



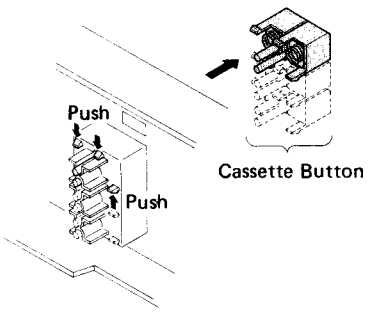
❼ Pull The Knobs



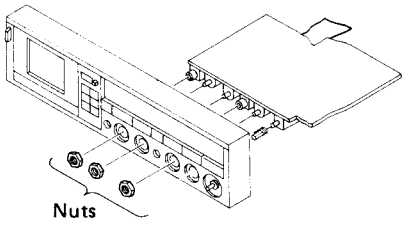
❽ Remove The Turning Shaft



❾ Remove The Cassette Button
(Remove The Cassette Button as pair)



❿ Remove The Nuts



- **To Replace Parts on P.C. Board** ..... Refer to ❶ ~ ❹
- **To Remove The Cassette Deck** ..... Refer to ❺, ❶ ~ ❹, ❻
- **To Remove The Front Panel** ..... Refer to ❺, ❶ ~ ❹, ❻ ~ ❿

MEASUREMENTS AND ADJUSTMENT

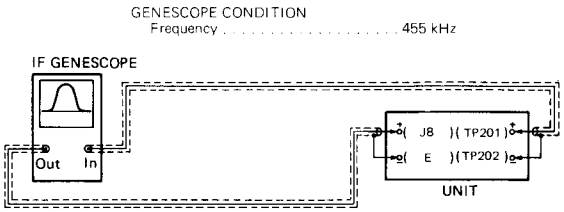
● Radio

Control Positions

- Volume Control..... Audible level of speaker sound (AM-RF, FM-RF); Minimum (AM-IF, FM-IF).
- Tone Control..... Center
- Balance Control..... Center
- Output of signal generator should be no higher than necessary to obtain output reading.
- Make certain that speaker system is connected to the receiver when aligning (or use relivant dummy load resistors).

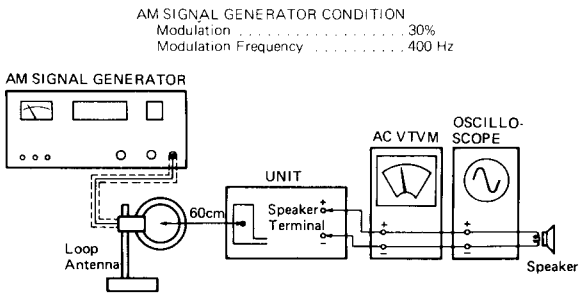
AM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial setting to point of noninterference.
4. Adjust **T201** for maximum output and symmetrical curve.



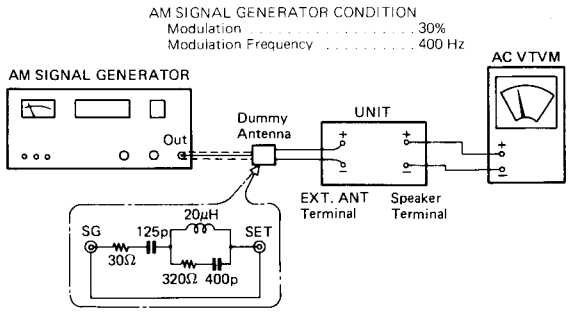
MW-RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial and signal generator setting to 511 kHz.
4. Adjust **L206** and **L203** for maximum output.
5. Place the radio dial and signal generator setting to 1650 kHz.
6. Adjust **CT203** and **CT201** for maximum output.
7. Repeat steps 3. ~ 6.



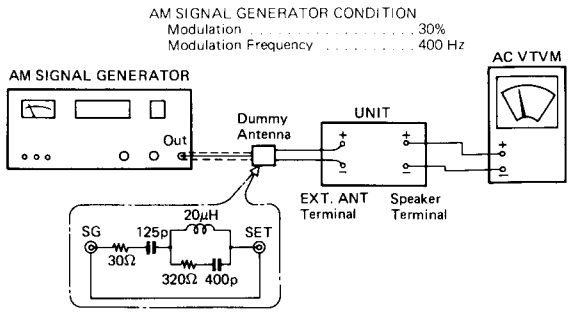
SW₁ RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into SW₁ position.
3. Place the radio dial and signal generator setting to 2.249 MHz.
4. Adjust **L207** and **L204** for maximum output.
5. Place the radio dial and signal generator setting to 7.231 MHz.
6. Adjust **CT204** and **CT202** for maximum output.
7. Repeat steps 3. ~ 6.



SW₂ RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into SW₂ position.
3. Place the radio dial and signal generator setting to 6.84 MHz.
4. Adjust **L208** and **L205** for maximum output.
5. Place the radio dial and signal generator setting to 22.79 MHz.
6. Adjust **CT205** for maximum output.
7. Repeat steps 3. ~ 6.



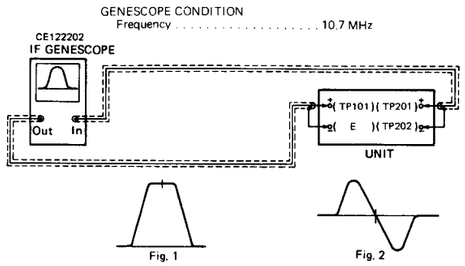
MEASUREMENTS AND ADJUSTMENT

● Radio

FM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial setting to point of noninterference.
4. Adjust **T101** for maximum amplitude and symmetrical curve. (Refer to Fig. 1)
5. Adjust **T203** for maximum amplitude and proper linearity between about ± 100 kHz markers. (Refer to Fig. 2)

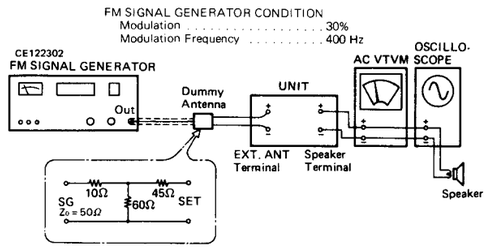
Note: Before aligning, turn the corest of **T203** fully counter-clockwise.



FM-RF ALIGNMENT

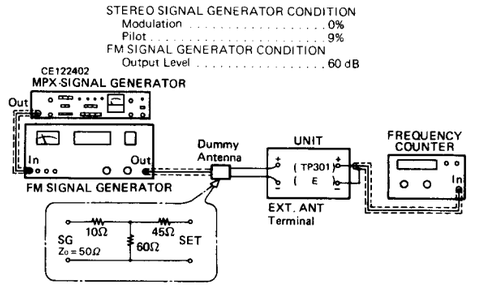
1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial and signal generator setting to 87.2 MHz.
   (Set the dial pointer to the left end of the scale or lower frequency edge.)
4. Adjust **L104** and **L103** for maximum output.
5. Place the radio dial and signal generator setting to 109.2 MHz.
   (Set the dial pointer to the right end of the scale or upper frequency edge.)
6. Adjust **CT102** and **CT101** for maximum output.
7. Repeat steps 3. ~ 6.

Note: As three output reading will be present, adjustments must be made at center frequency.



FM STEREO ALIGNMENT (FREE RUN)

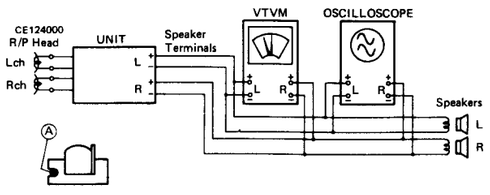
1. Test equipment connection is shown in figure.
2. Place unit into FM STEREO position.
3. Place the radio dial and signal generator setting to 98 MHz.
4. Adjust **VR301** for 19 kHz ± 100 Hz on frequency counter reading.
5. Tune a stereo broadcast and confirm the frequency stays at 19 kHz.



● Tape

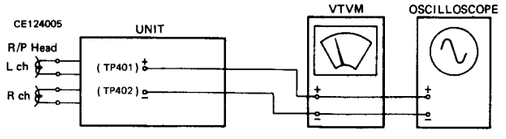
HEAD AZIMUTH ALIGNMENT CE123101

1. Test equipment connection is shown in figure.
2. Playback test tape VTT 653. (10 kHz, –5 dB)
3. Adjust screw Ⓐ for maximum indication for equal output on both channels.
4. After alignment, lock the head adjust screw Ⓐ with lacquer.

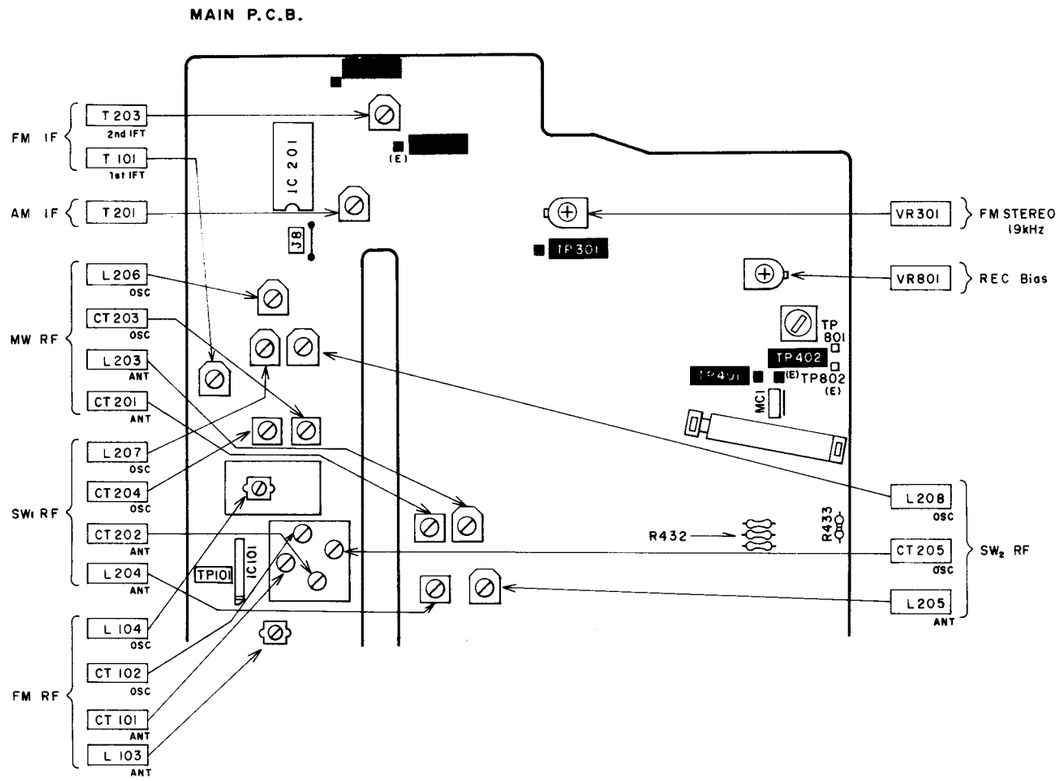


RECORDING BIAS ALIGNMENT CE123501

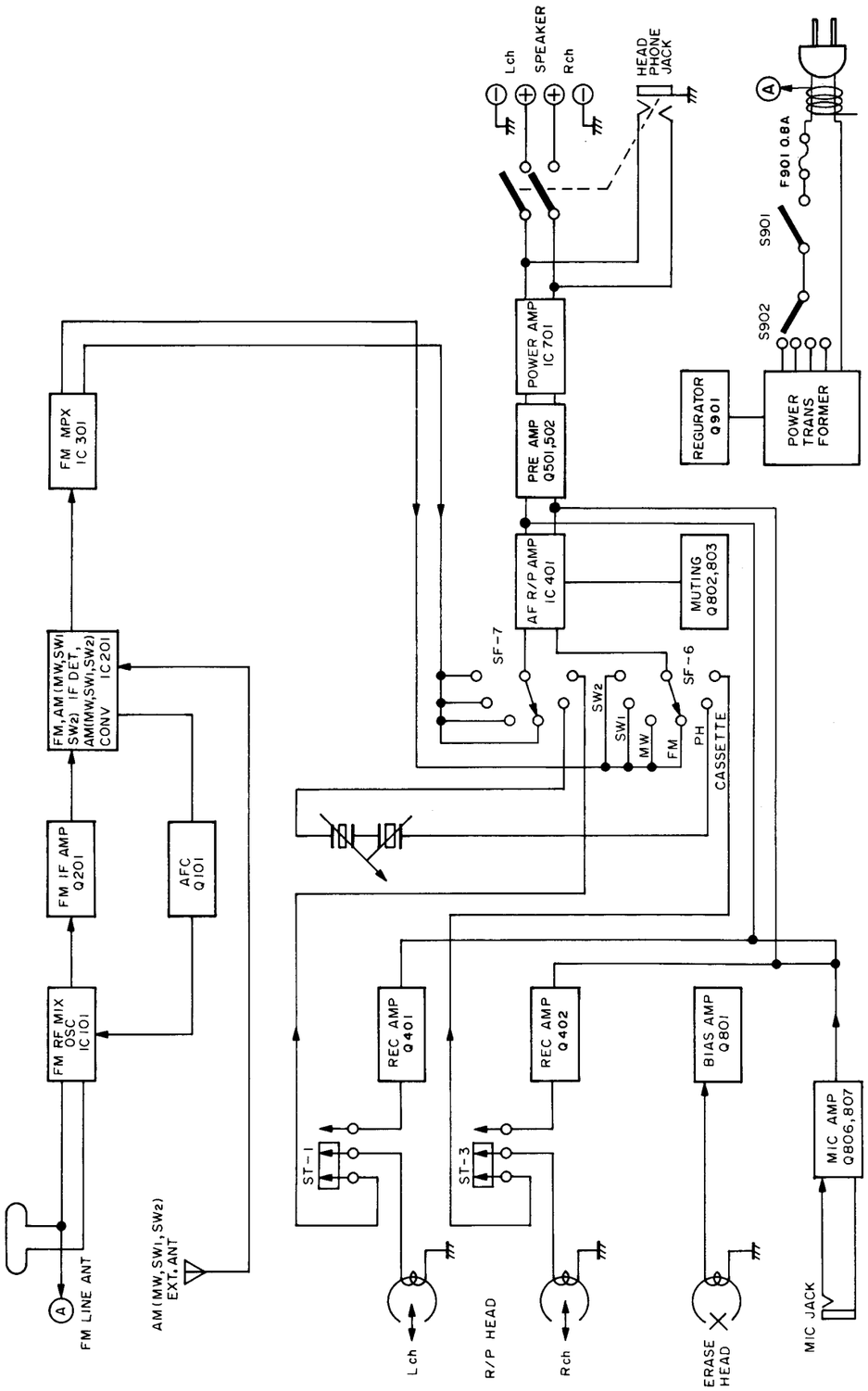
1. Test equipment connection is shown in figure.
2. Place unit into TAPE position.
3. Place cassette deck into recording mode.
4. Adjust **VR801** for 4.0 mV ±0.2 mV indication on VTVM.



ALIGNMENT POINTS



BLOCK DIAGRAM



REPLACEMENT PARTS LIST

NOTE:

1. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
2. Parts No. listed in this Parts List are Service Parts.

Numbering System of Resister

Type	Wattage	Tolerance	Value
Three Letters	One or Two Letters	Two or Three Letters	Three or Four Letters

Example:

E R D	2 5	T J	1 0 1

Resistor Type		Wattage		Tolerance	
ERD:	Carbon Film	1:	1W	F:	±1%
ERC:	Solid	2:	2W	J:	±5%
ERX:	Metal Film	12:	1/2W	K:	±10%
ERG:	Metal Oxide Film	18:	1/8W		
ERO:	High Stability Metal Film	25:	1/4W		
ERF:	Flaneproof Wire-Wound Bath-Tube				
ERQ:	Fuse Type Metal Film	50:	1/2W		
RRD:	Chip	2F:	1/4W		

Ref. No.	Part No.	Description (Unit: Ω)
RESISTORS		
R101	ERD25FJ331	330
R102	ERD25TJ153	15k
R103	ERD25FJ102	1k
R104	ERD25TJ223	22k
R105	ERD25TJ224	220k
R106	ERD25TJ474	470k
R107	ERD25FJ222	2.2k
R108	ERD25TJ474	470k
R109	ERD25FJ220	22
R110	ERD25FJ472	4.7k
R201	ERD25FJ470	47
R202	ERD25FJ331	330
R203	ERD25FJ681	680
R204	ERD25FJ472	4.7k
R205	ERD25FJ471	470
R206	ERD25FJ101	100
R207	ERD25TJ474	470k
R208	ERD25TJ273	27k
R209	ERD25FJ103	10k
R210	ERD25FJ101	100
R211	ERD25FJ471	470
R212	ERD25FJ391	390
R213	ERD25FJ101	100
R301	ERD25TJ183	18k
R302	ERD25FJ102	1k
R303	ERD25TJ104	100k
R304	ERD25FJ103	10k
R305	ERD25FJ103	10k
R306	ERD25FJ681	680
R307	ERD25FJ221	220
R308	ERD25TJ683	68k
R309	ERD25TJ683	68k
R313	ERD25TJ333	33k
R314	ERD25TJ333	33k
R401	ERD25FJ102	1k
R402	ERD25FJ102	1k
R403	ERD25TJ473	47k
R404	ERD25TJ473	47k
R405	ERD25TJ334	330k
R406	ERD25TJ334	330k
R407	ERD25FJ680	68
R408	ERD25FJ680	68
R409	ERD25TJ123	12k
R410	ERD25TJ123	12k
R411	ERD25FJ102	1k
R412	ERD25FJ102	1k
R413	ERD25FJ102	1k
R414	ERD25FJ102	1k
R415	ERD25FJ471	470
R416	ERD25FJ101	100
R417	ERD25FJ682	6.8k
R418	ERD25FJ682	6.8k
R419	ERD25FJ682	6.8k
R420	ERD25FJ682	6.8k
R421	ERD25FJ391	390
R422	ERD25FJ391	390
R423	ERD25FJ472	4.7k
R424	ERD25FJ472	4.7k
R425	ERD25TJ105	1M
R426	ERD25TJ105	1M
R427	ERD25TJ223	22k
R428	ERD25TJ223	22k
R429	ERD25TJ563	56k
R430	ERD25TJ563	56k
R431	ERD25FJ4R7	4.7
R432	ERD25TJ273	27k
R433	ERD25TJ273	27k
R501	ERD25FJ472	4.7k
R502	ERD25FJ472	4.7k
R503	ERD25TJ153	15k
R504	ERD25TJ153	15k
R505	ERD25TJ824	820k
R506	ERD25TJ824	820k
R507	ERD25FJ332	3.3k
R508	ERD25FJ332	3.3k
R509	ERD25FJ561	560
R510	ERD25FJ561	560
R601	ERD25TJ684	680k
R602	ERD25TJ684	680k
R603	ERD25TJ153	15k
R604	ERD25TJ153	15k
R701	ERD25FJ102	1k
R702	ERD25FJ102	1k
R703	ERD25TJ104	100k
R704	ERD25TJ104	100k
R707	ERD25FJ331	330
R708	ERD25FJ331	330
R709	ERD25FJ182	1.8k
R710	ERD25FJ182	1.8k
R711	ERD25TJ104	100k
R712	ERD25TJ104	100k
R713	ERD25FJ331	330
R714	ERD25FJ331	330
R801	ERD25FJ4R7	4.7
R802	ERD25TJ153	15k
R803	ERD25FJ222	2.2k
R804	ERD25FJ222	2.2k
R805	ERD25FJ100	10
R806	ERD25FJ272	2.7k
R807	ERD25FJ272	2.7k
R808	ERD25FJ221	220
R810	ERD25FJ103	10k
R811	ERD25FJ103	10k
R812	ERD25FJ103	10k
R813	ERD25FJ102	1k
R814	ERD25TJ124	120k
R815	ERD25FJ222	2.2k
R816	ERD25FJ103	10k
R817	ERD25FJ682	6.8k
R818	ERD25TJ474	470k
R819	ERD25FJ821	820
R820	ERD25TJ473	47k
R821	ERD25FJ101	100
R822	ERD25FJ681	680
R823	ERD25FJ472	4.7k
R824	ERD25FJ332	3.3k
R826	ERD25FJ222	2.2k
R827	ERD25FJ222	2.2k
R828	ERD25FJ152	1.5k
R829	ERD25FJ102	1k
R830	ERD25FJ1R0	1
R901	ERD25FJ472	4.7k

REPLACEMENT PARTS LIST

Numbering System of Capacitor

Type	Voltage	Value	Tolerance
Four Letters	One or Two Letters	Two or Five Letters	One or Two Letters

Example:

E C K D 1 H 3 3 3 M D

Capacitor Type		Voltage		Tolerance	
ECCD:	Temperature Compensating Ceramic			C:	±0.25pF
ECKD:	High dielectric Constant Ceramic	KC:	400V	D:	±0.5pF
ECQM:	Polyester	OJ:	6.3V	F:	±1pF
ECQP:	Polypropylene Film	1A:	10V	J:	±5%
ECQS:	Polystylene Film	1C:	16V	K:	±10%
ECFD:	Semiconductor Ceramic	1E:	25V	M:	±20%
ECEA:	Electrolytic	1H:	50V	P:	+100, -0%
ECEB:	Electrolytic	1V:	63V	Z:	+80, -20%
ECET:	Electrolytic	2H:	100V		
ECSF:	Tantalum	25:	25V		
ECUX:	Chip	50:	50V		

Ref. No.	Part No.	Description (Unit: μF)
CAPACITORS		
C101	ECCD1H330K	33pF
C102	ECCD1H100KC	10pF
C103	ECKD1H223ZF	0.022
C104	ECKD1H223ZF	0.022
C105	ECFD1E683MD	0.068
C106	ECCD1H270K	27pF
C107	ECCD1H050KC	5pF
C108	ECCD1H150KC	15pF
C109	ECKD1H223ZF	0.022
C110	ECKD1H223ZF	0.022
C111	ECCD1H150KC	15pF
C112	ECCD1H070CC	7pF
C113	ECKD1H223ZF	0.022
C114	ECKD1H103ZF	0.01
C115	ECKD1H223ZF	0.022
C116	ECKD1H223ZF	0.022
C117	ECCD1H100KC	10pF
C120	ECKD1H223ZF	0.022
C121	ECKD1H471KB	470pF
C201	ECKD1H223ZF	0.022
C202	ECKD1H223ZF	0.022
C204	ECCD1H080CC	8pF
C205	ECCD1H100KC	10pF
C206	ECCD1H100KC	10pF
C207	ECKD1H223ZF	0.022
C209	ECCD1H180KC	18pF
C210	ECCD1H150KC	15pF
C211	ECCD1H100KC	10pF
C212	ECQM1361JZ	360pF
C213	ECQS1152JZ	1500pF
C214	ECQS1472JZ	4700pF
C215	ECKD1H223ZF	0.022
C216	ECCD1H470K	47pF
C217	ECCD1H181K	180pF
C218	ECKD1H223ZF	0.022
C219	ECKD1H223ZF	0.022
C220	ECCD1H470K	47pF
C221	ECEA1HS100	10
C222	ECEA1AS101	100
C223	ECEA50ZR47	0.47
C224	ECKD1H223ZF	0.022
C225	ECKD1H223ZF	0.022
C226	ECKD1H471KB	470pF
C227	ECKD1H103ZF	0.01
C228	ECEA1AS331	330
C229	ECKD1H223ZF	0.022
C230	ECEA50ZR22	0.22
C301	ECEA50Z1	1
C302	ECQP1471JZ	470pF
C303	ECEA50ZR47	0.47
C304	ECEA50ZR22	0.22
C305	ECFD1V473KD	0.047
C306	ECEA50ZR47	0.47
C307	ECFD1V103KD	0.01
C308	ECFD1V103KD	0.01
C309	ECFD1E683MD	0.068
C310	ECFD1E683MD	0.068
C311	ECEA1CS330	33
C313	ECKD1H152KB	0.0015
C314	ECKD1H152KB	0.0015
C315	ECEA1HS100	10
C401	ECEA50MR47R	0.47
C402	ECEA50MR47R	0.47
C403	ECKD1H102KB	0.001
C404	ECKD1H102KB	0.001
C405	ECEA1AS470	47
C406	ECEA1AS470	47
C407	ECEA50Z4R7	4.7
C408	ECEA50Z4R7	4.7
C409	ECFD1V103KD	0.01
C410	ECFD1V103KD	0.01
C411	ECEA1CS330	33
C413	ECEA50Z1	1
C414	ECEA50Z1	1
C415	ECKD1H102KB	0.001
C416	ECKD1H102KB	0.001
C417	ECFD1E683MD	0.068
C418	ECFD1E683MD	0.068
C419	ECEA50Z1	1
C420	ECEA50Z1	1
C421	ECKD1H821KB	820pF
C422	ECKD1H821KB	820pF
C423	ECEA1ES101	100
C424	ECKD1H331KB	330pF
C425	ECKD1H331KB	330pF
C426	ECCD1H151K	150pF
C427	ECCD1H151K	150pF
C428	ECFD1E683MD	0.068
C429	ECFD1E683MD	0.068
C431	ECKD1H222KB	0.0022
C432	ECKD1H222KB	0.0022
C433	ECKD1H102KB	0.001
C434	ECKD1H102KB	0.001
C501	ECFD1H822KD	0.0082
C502	ECFD1H822KD	0.0082
C503	ECFD1E683MD	0.068
C504	ECFD1E683MD	0.068
C505	ECEA50Z1	1
C506	ECEA50Z1	1
C601	ECCD1H100KC	10pF
C602	ECCD1H100KC	10pF
C701	ECEA50M010R	1
C702	ECEA50M010R	1
C703	ECKD1H471KB	470pF
C704	ECKD1H471KB	470pF
C705	ECEA1HS100	10
C706	ECEA1HS100	10
C707	ECEA1ES470	47
C708	ECEA1ES470	47
C709	ECEA50ZR1	0.1
C710	ECEA50ZR1	0.1
C711	ECEA1ES471	470
C712	ECEA1ES471	470
C713	ECEA1ES101	100
C714	ECEA1ES101	100
C715	ECKD1H471KB	470pF
C716	ECKD1H471KB	470pF
C801	ECCD1H181K	180pF
C802	ECCD1H181K	180pF
C803	ECQP1332JZ	3300pF
C804	ECQM1H123JZ	0.012
C805	ECQM1H683JZ	0.068
C806	ECEA1ES101	100
C807	ECEA50MR47R	0.47
C808	ECEA50Z1	1
C809	ECEA1CS331	330
C810	ECEA50ZR22	0.22
C811	ECEA50Z1	1
C812	ECEA1HS100	10
C813	ECEA1HS100	10
C814	ECKD1H332KB	0.0033
C902 △	ECEB1VS222	2200
C903	ECKD1H103ZF	0.01
C904	ECKD1H103ZF	0.01
C905	ECKD1H103ZF	0.01
C906	ECKD1H103ZF	0.01
C907	ECEA1CS330	33
C908	ECKD1H102KB	0.001
C910 △	ECKDKC472MF2	0.0047

MC-Service

REPLACEMENT PARTS LIST

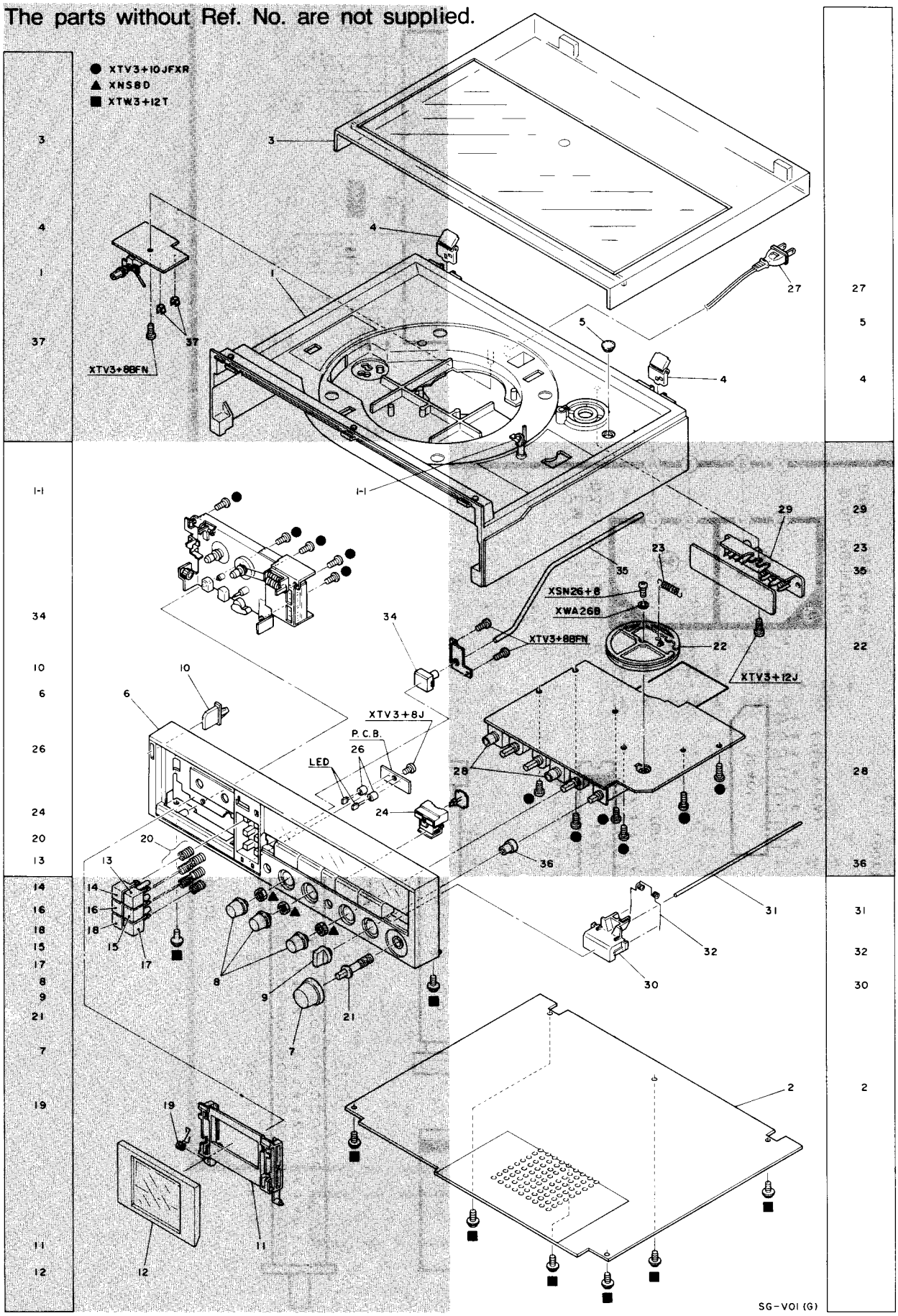
Ref. No.	Part No.	Description
TRANSISTORS		
Q101	2SA722-S	FM AFC
Q201	2SC1359B	FM IF Amp
Q401	2SC945L-P	REC Amp
Q402	2SC945L-P	REC Amp
Q501	2SC945L-P	2nd Amp
Q502	2SC945L-P	2nd Amp
Q801	2SC1383NC-R	Bias OSC
Q802	2SC945L-P	Muting
Q803	2SC945L-P	Muting
Q805	2SD592NC-R	Switching
Q806	2SC945L-P	MIC Amp
Q807	2SC945L-P	MIC Amp
Q901	2SD1266	Stabilizer
DIODES		
D101	MA162A	FM AGC
D301	SLP165B	FM ST EYE
D801	LN224RP	Dial Point.
D802	SLP155B-01	REC Ind.
D803	SLP455B-01	Pause Ind.
D901	SVDEQA0113RA	Stabilizer
D902	DS135TD	RECT
D903	DS135TD	RECT
D904	DS135TD	RECT
D905	DS135TD	RECT
COILS AND TRANSFORMERS		
L101	RLQY15S5-Q	Choke
L102	SLQY38S-20	Choke
L103	SLD4N22-M	FM Ant Coil
L104	SLQ4N30-M	FM OSC Coil
L105	RLQY75S5-Q	Choke
L106	RLQY75S5-Q	Choke
L202	SSA4	AM Loop Ant
L203	SLA2M2-M	MW Ant Coil
L204	SLA3M16-M	SW1 Ant
L205	SLA3M18-M	SW2 Ant
L206	SLQ2M4-M	MW OSC Coil
L207	RLQ3M18-M	SW1 OSC
L208	RLQ3M75-M	SW2 OSC
L801	SLQU270-2K	Choke
L802	SLQ9Z38-K	Bias OSC
T1	△ SLT5L136-V	Power Trans
T101	RLI4M101-M	FM IFT
T201	QLI2M102-M	AM IFT
T203	RLI4M101-M	FM IFT
VARIABLE RESISTORS		
VR301	SVNAA14B2-Q	Free Run
VR501/502	EWCSMAF20B54	Tone Volume
VR503/504	EWCSMAF25B54	Main Volume
VR505	EWHGFAF20G15	Balance
VR801	SVNAA24B2-Q	Rec Bias

Ref. No.	Part No.	Description
VARIABLE CAPACITORS		
CV101/102/201/202/CT101/102/202		
205	RCV4RC2VK-M	Variable Capacitor
CT201	RCVCTY12B218	Trimmer
CT203	RCVCTY12B218	Trimmer
CT205	RCVCTY12B218	Trimmer
SWITCHES		
SF1-12	SSR200	Function
ST1-4	SSS116	Rec/Play
S901	△ ESB8213V	Power
S902	△ SSP36	Voltage Selector
INTEGRATED CIRCUIT		
IC101	AN7213	FM RF
IC201	AN7220B	AM/FM IF
IC301	AN7410N	MPX
IC401	UPC1228H	AF Amp
IC701	HA1394	Power Amp
CERAMIC FILTERS		
CF201	SVF107MA53	FM CFT
CF202	QCRZZ455A7W	AM CFT
FUSE		
F901	△ XBA2E08NS5	250V 800mA
PACKING		
PA1	SQX50574-2	Inst. Book
PA2	RJP120ZBS-H	Adaptor Plug
PA3	SPN5478	Carton Box SG-V01 (G)
	SPN5480	Carton Box SG-V11 (G)
PA4	SPN5352	Front Pad
PA5	SPN5354	Rear Pad SG-V01 (G)
	SPN5360	Rear Pad SG-V11 (G)
PA6	SPN5322	T/T Pad SG-V01 (G)
	SPN5404-1	T/T Pad SG-V11 (G)
PA7	SPH6206	Cover SG-V01 (G)
	SPH6204	Cover SG-V11 (G)
PA8	XZB75X67C05	Set Cover

Ref. No.	Part No.	Description

PARTS LOCATION OF CABINET AND CHASSIS (SG-V01)

The parts without Ref. No. are not supplied.

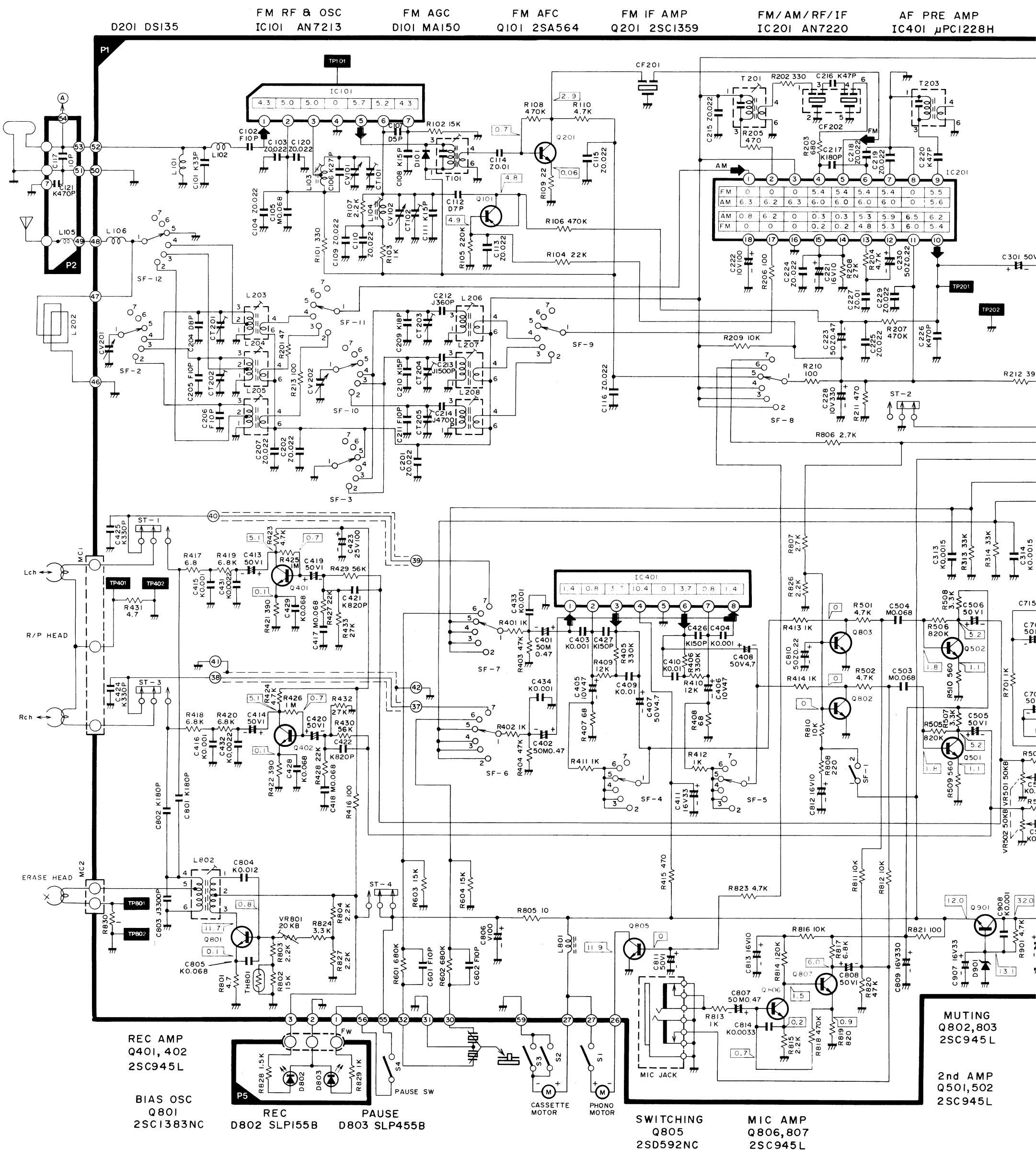


REPLACEMENT PARTS LIST OF CABINET AND CHASSIS (SG-V01)

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV01X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
2	SYU462	Bottom Cover Ass'y	1
3	SYE920	Dust Cover Ass'y	1
4	SBH9112-7	Hinge	2
5	SHG9246-1	Cap	1
6	SGWGV01X	Front Panel Ass'y	1
7	SBN1110	Tuning Knob	1
8	SBN1112	Volume Knob	3
9	SBN1068-2	Select Knob	1
10	SBC558	Eject Button	1
11	SGEGV01X-1	Cassette Holder Ass'y	1
12	SGEGV01X	Cassette Lid Ass'y	1
13	SBC560-1	FF Button	1
14	SBC562-1	REW Button	1
15	SBC564-1	Play Button	1
16	SBC566-1	Stop Button	1
17	SBC568-1	REC Button	1
18	SBC570-1	Pause Button	1
19	SMQ4998-1	Eject Spring	1
20	SUS430	Button Spring	6
21	SDT91302	Tuning Shaft	1
22	SDD80-6	Dial Drum	1
23	RDS4170A	Dial Spring	1
24	SDA106	Pointer Holder	1
26	SJY5162	REC LED Spacer	2
27 ⚠	RJA9YA-F	Power Cord	1
28	XCJ6P21E-1	H.P./Mic Jack	2
29	SJF9504	Speaker Terminal	1
30	SJY5208	Start Button	1
31	SJY90394	Player Start Rod	1
32	SUS450	Start Button Spring	1
34	SBC578	Power Button	1
35	SUH166	Power Remote Rod	1
36	SUD370-1	Spacer	1
37 ⚠	RJF107-2	Fuse Holder	2

Items of Assembly Parts.

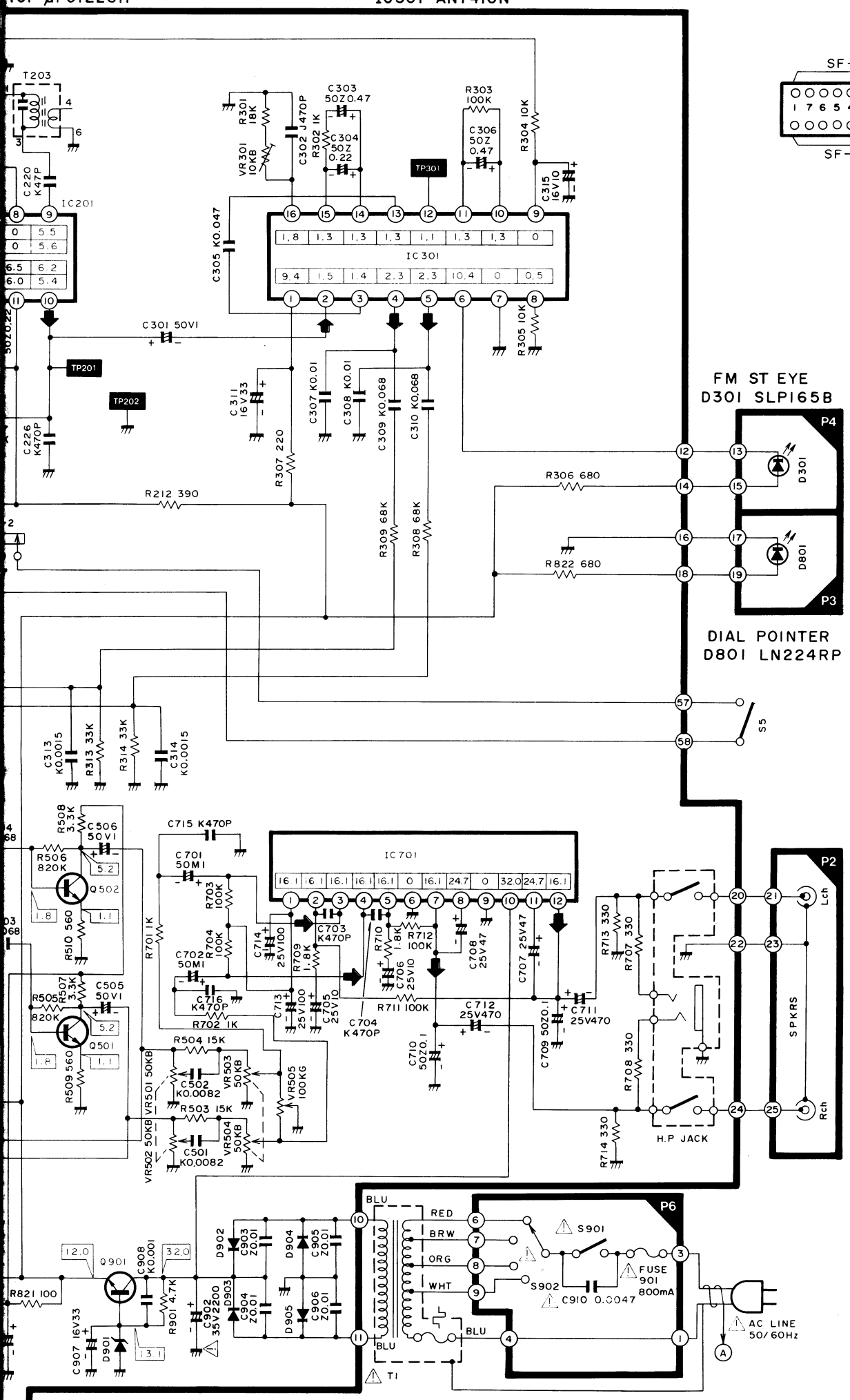
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV01X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
		Cabinet	(1)
		Dust Cover Rubber	(3)
		Stylus Label	(1)
		Foot Felt	(2)
2	SYU462	Bottom Cover Ass'y	1
		Bottom Cover	(1)
		Shield Paper	(1)
3	SYE920	Dust Cover Ass'y	1
		Dust Cover	(1)
		Badge	(1)
6	SGWGV01X	Front Panel Ass'y	1
		Front Panel	(1)
		Dial Scale	(1)
		Foot Felt	(2)
11	SGEGV01X-1	Cassette Holder Ass'y	1
		Cassette Holder	(1)
		Spring	(2)
12	SGEGV01X	Cassette Lid Ass'y	1
		Cassette Lid	(1)
		Transparent Cover	(1)


D201 DS135
FM RF & OSC IC101 AN7213
FM AGC D101 MA150
FM AFC Q101 2SA564
FM IF AMP Q201 2SC1359
FM/AM/RF/IF IC201 AN7220
AF PRE AMP IC401 μPC1228H
P1
P2
P5
TP101
TP201
TP202
TP401
TP402
TP801
TP802
IC101
IC201
IC401
CF201
CF202
T201
T203
T101
Q201
Q101
Q401
Q402
Q801
Q803
Q502
Q802
Q501
Q805
Q806
Q807
Q901
D101
D802
D803
TH801
VR801 20KB
VR501 50KB
VR502 50KB
MC1
MC2
Lch
Rch
R/P HEAD
ERASE HEAD
SF-1
SF-2
SF-3
SF-4
SF-5
SF-6
SF-7
SF-8
SF-9
SF-10
SF-11
SF-12
ST-1
ST-2
ST-3
ST-4
FM
AM
FW
S1
S2
S3
S4
PAUSE SW
CASSETTE MOTOR
PHONO MOTOR
MIC JACK
REC AMP
Q401, 402
2SC945L
BIAS OSC
Q801
2SC1383NC
REC
D802 SLP155B
PAUSE
D803 SLP455B
SWITCHING
Q805
2SD592NC
MIC AMP
Q806,807
2SC945L
MUTING
Q802,803
2SC945L
2nd AMP
Q501,502
2SC945L

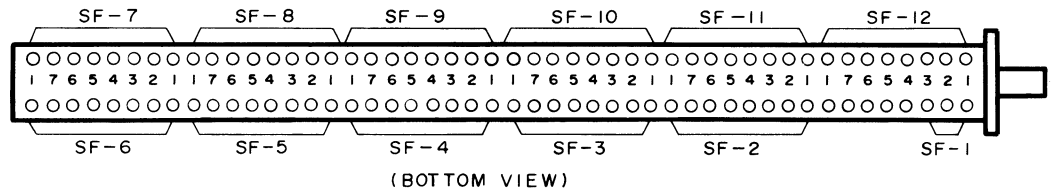
EMATIC DIAGRAM

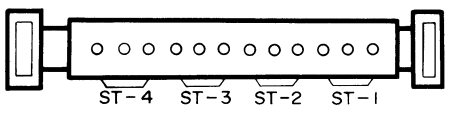
F PRE AMP
401 μPC1228H

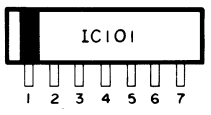
MPX
IC301 AN7410N

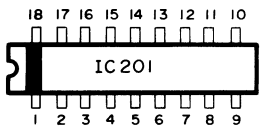


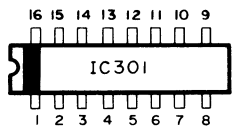
TERMINAL GUIDE

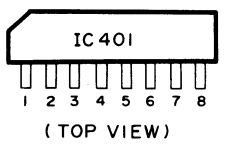


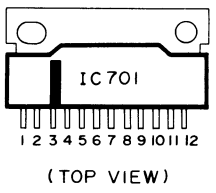


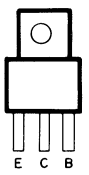


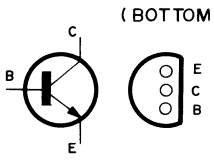


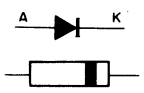


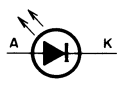


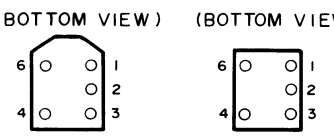


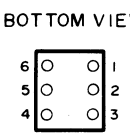












1) S1 : PHONO MOTOR SWITCH IN "OFF" POSITION
S2 : TAPE MOTOR SWITCH IN "OFF" POSITION
S3 : HEAD PANEL SWITCH IN "OFF" POSITION
S4 : PAUSE SWITCH IN "OFF" POSITION
S5 : TAPE PLAY SWITCH IN "OFF" POSITION
S901 : POWER SWITCH IN "OFF" POSITION
ST1~4 : REC/PLAY SELECTOR SWITCH IN "PLAY" POSITION
SF1~12 : FUNCTION SELECTOR SWITCH IN "FM" POSITION
(1. COMMON 2. SW2 3. SW1 4. MW 5. FM 6. PHONO 7. TAPE)

2) LETTERS
J, K, M, Z AND P INDICATE TOLERANCE OF CAPACITORS AS FOLLOWS
J = ±5%, K = ±10%, M = ±20%, Z = +80% −20%, P = +100% −0%

3) DC VOLTAGE ARE TO BE MEASURED WITH VTVM UNDER NO SIGNAL CONDITION IN "FM" OR "MW" POSITION

MUTING
Q802,803
2SC945L

POWER AMP
IC701
HA1394

RECT
D902,903,904,905
DS135TD

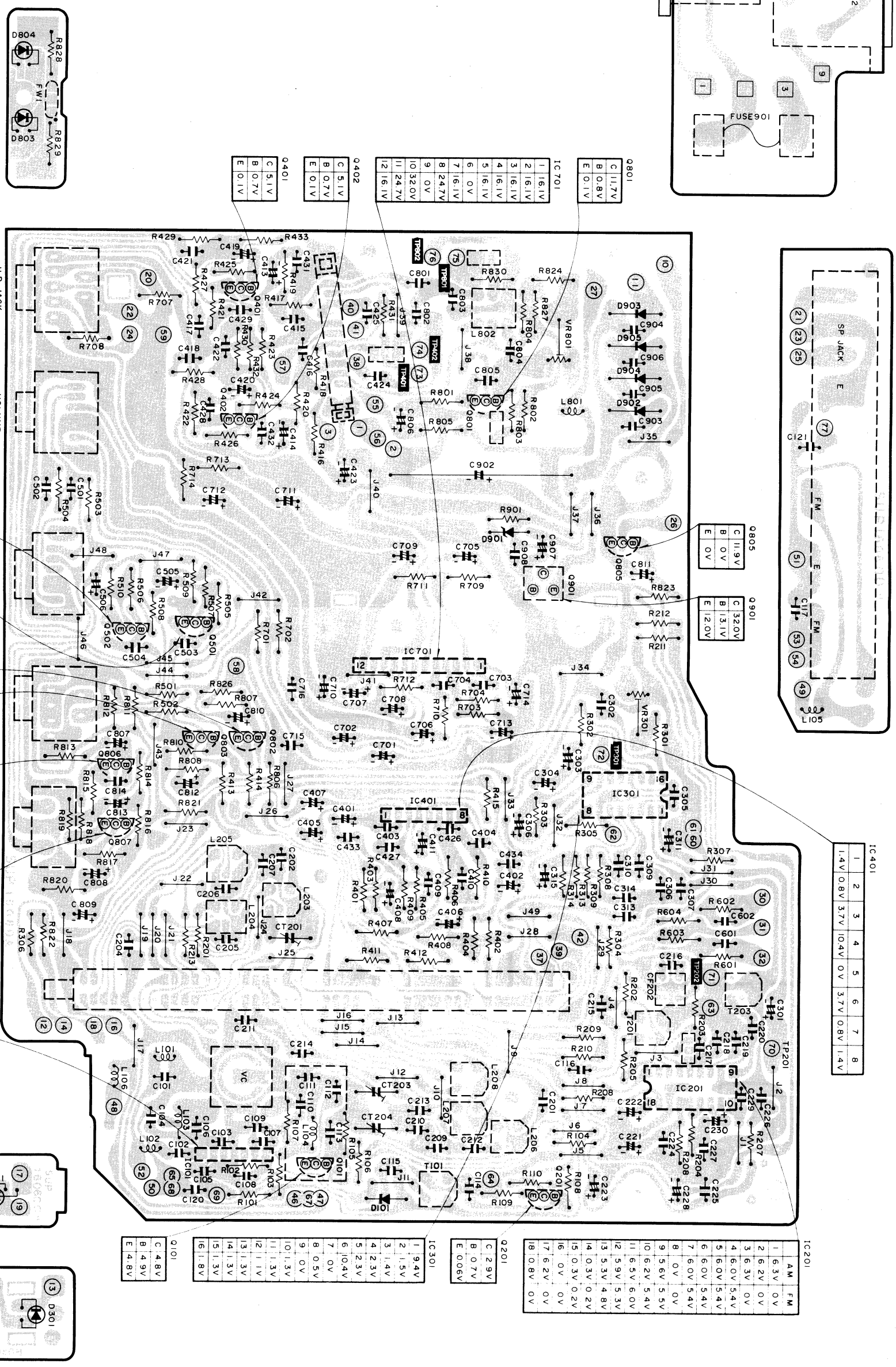
2nd AMP
Q501,502
2SC945L

STABILIZER
Q901 2SD1266
D901 MA1130

Important safety notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

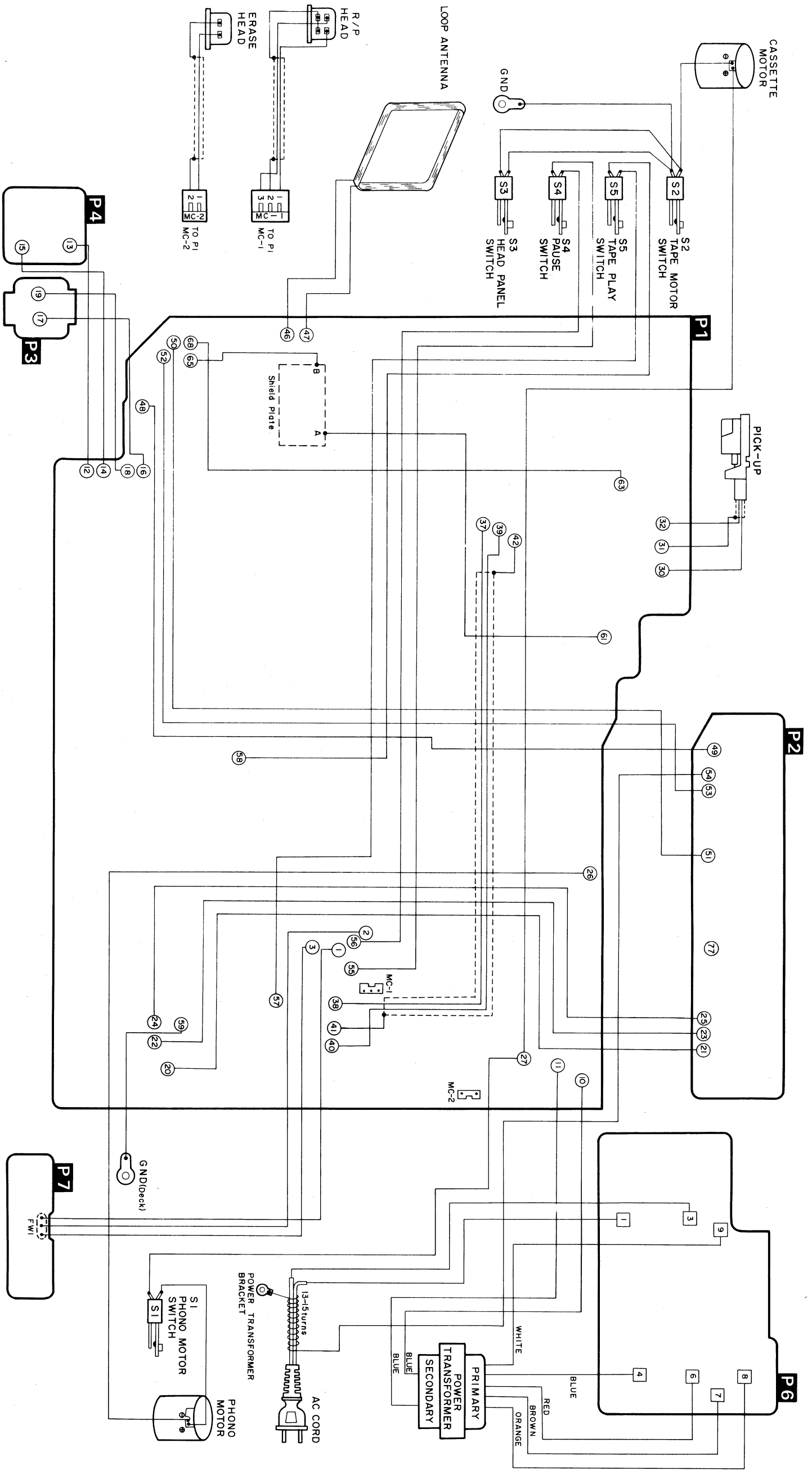
SCHEMATIC DIAGRAM
MODEL NO. SG-V01G. V11G

* This diagram might be modified without notice for further development of technology.



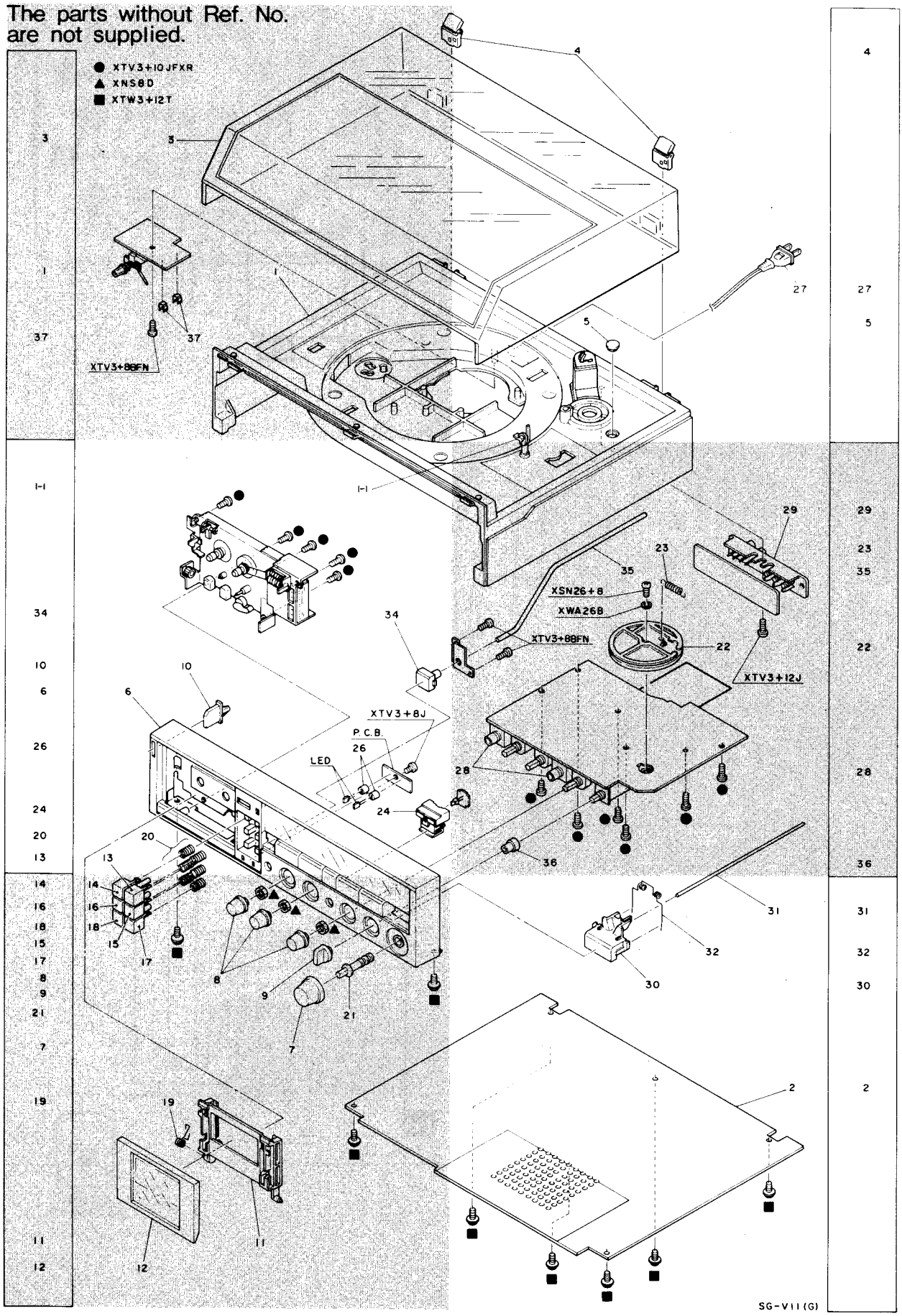
MODEL SG-V01(G) SO-S-T

D AND WIRING CONNECTION



* This diagram might be modified without notice for further development of technology.

PARTS LOCATION OF CABINET AND CHASSIS (SG-V11)



REPLACEMENT PARTS LIST OF CABINET AND CHASSIS (SG-V11)

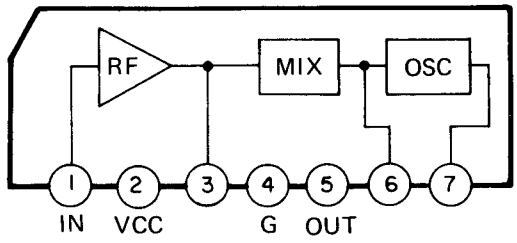
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV11X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
2	SYU462	Bottom Cover Ass'y	1
3	SYE932	Dust Cover Ass'y	1
4	SBH9112-6	Hinge	2
5	SHG9246-1	Cap	1
6	SGWGV01X	Front Panel Ass'y	1
7	SBN1110	Tuning Knob	1
8	SBN1112	Volume Knob	3
9	SBN1068-2	Select Knob	1
10	SBC558	Eject Button	1
11	SGEGV01X-1	Cassette Holder Ass'y	1
12	SGEGV01X	Cassette Lid Ass'y	1
13	SBC560-1	FF Button	1
14	SBC562-1	REW Button	1
15	SBC564-1	Play Button	1
16	SBC566-1	Stop Button	1
17	SBC568-1	REC Button	1
18	SBC570-1	Pause Button	1
19	SMQ4998-1	Eject Spring	1
20	SUS430	Button Spring	6
21	SDT91302	Tuning Shaft	1
22	SDD80-6	Dial Drum	1
23	RDS4170A	Dial Spring	1
24	SDA106	Pointer Holder	1
26	SJY5162	REC LED Spacer	2
27 △	RJA9YA-F	Power Cord	1
28	XCJ6P21E-1	H.P./Mic Jack	2
29	SJF9504	Speaker Terminal	1
30	SJY5208	Start Button	1
31	SJY90394	Player Start Rod	1
32	SUS450	Start Button Spring	1
34	SBC578	Power Button	1
35	SUH166	Power Remote Rod	1
36	SUD370-1	Spacer	1
37 △	RJF107-2	Fuse Holder	2

Items of Assembly Parts.

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV11X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
		Cabinet	(1)
		Dust Cover Rubber	(3)
		Stylus Label	(1)
		Foot Felt	(2)
2	SYU462	Bottom Cover Ass'y	1
		Bottom Cover	(1)
		Shield Paper	(1)
3	SYE932	Dust Cover Ass'y	1
		Dust Cover	(1)
		Badge	(1)
6	SGWGV01X	Front Panel Ass'y	1
		Front Panel	(1)
		Dial Scale	(1)
		Foot Felt	(2)
11	SGEGV01X-1	Cassette Holder Ass'y	1
		Cassette Holder	(1)
		Spring	(2)
12	SGEGV01X	Cassette Lid Ass'y	1
		Cassette Lid	(1)
		Transparent Cover	(1)

IC BLOCK DIAGRAM

AN7213



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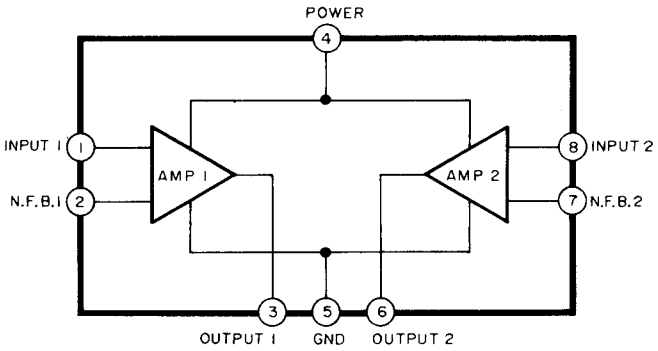

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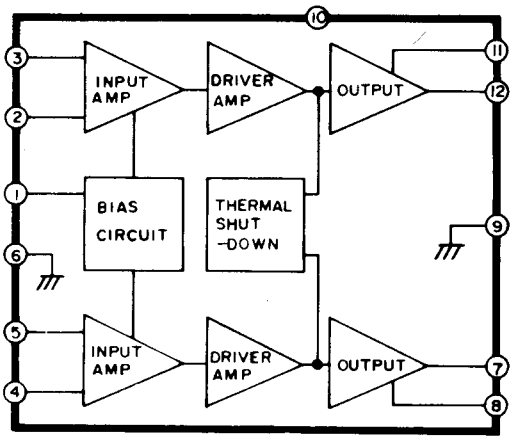

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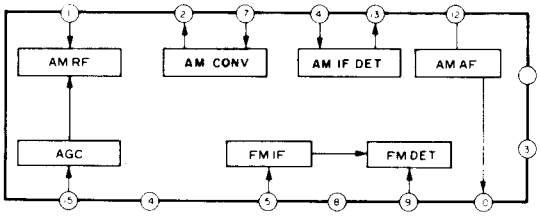

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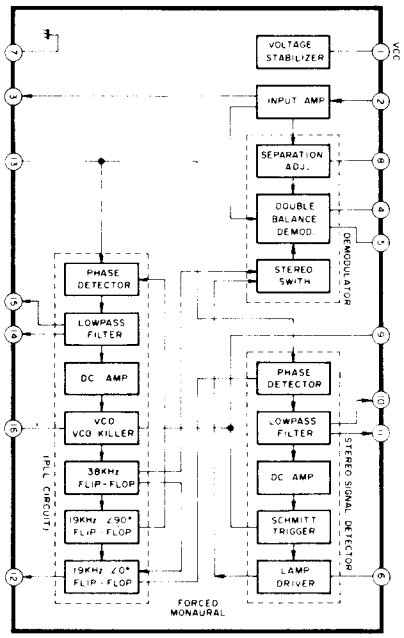
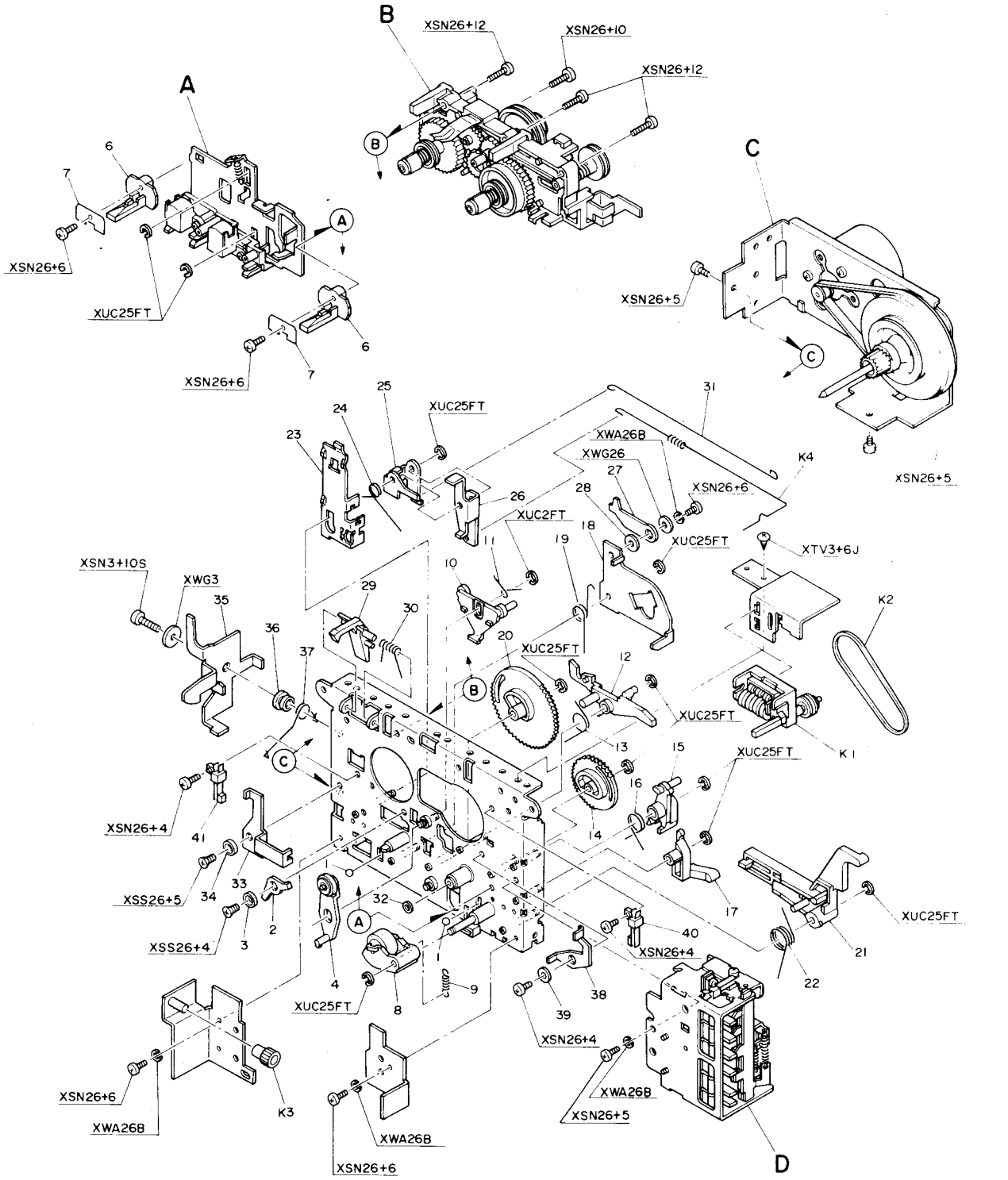


MC-Service

PARTS LOCATION OF CASSETTE TAPE DECK

*Part A, B, C and D will not be supplied as assembly.
Please refer to next page Fig. 1~4 for part number.



SJD8F02-1U

PARTS LOCATION OF CASSETTE TAPE DECK

Part A

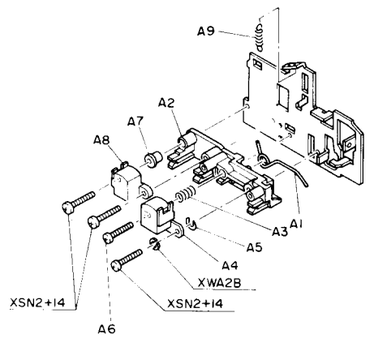


Fig. I

Part B

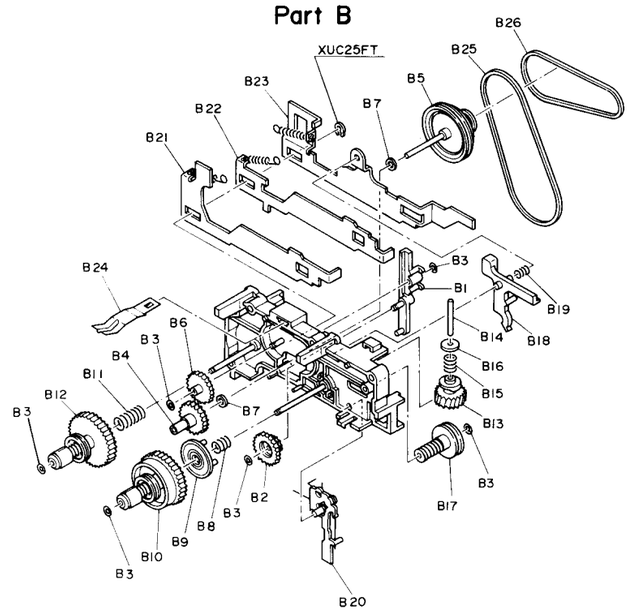


Fig. 2

Part C

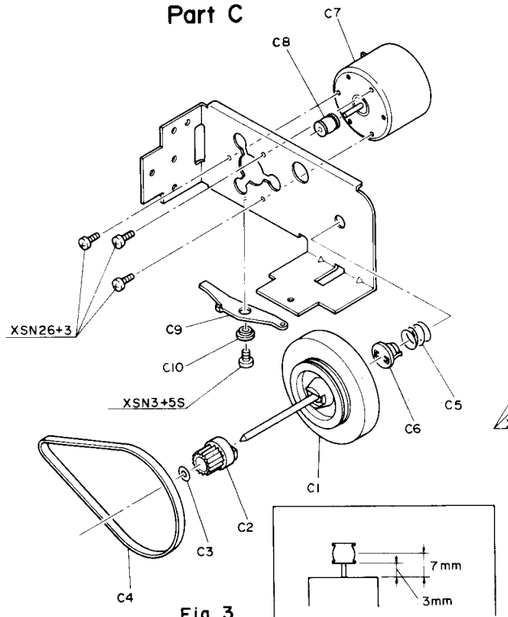


Fig. 3

Part D

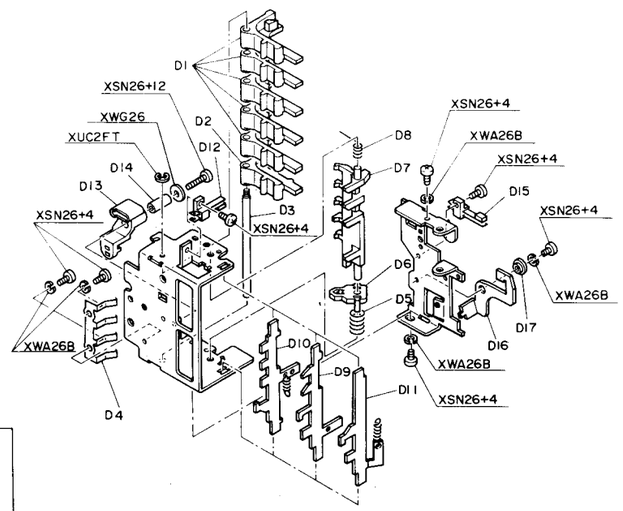


Fig. 4

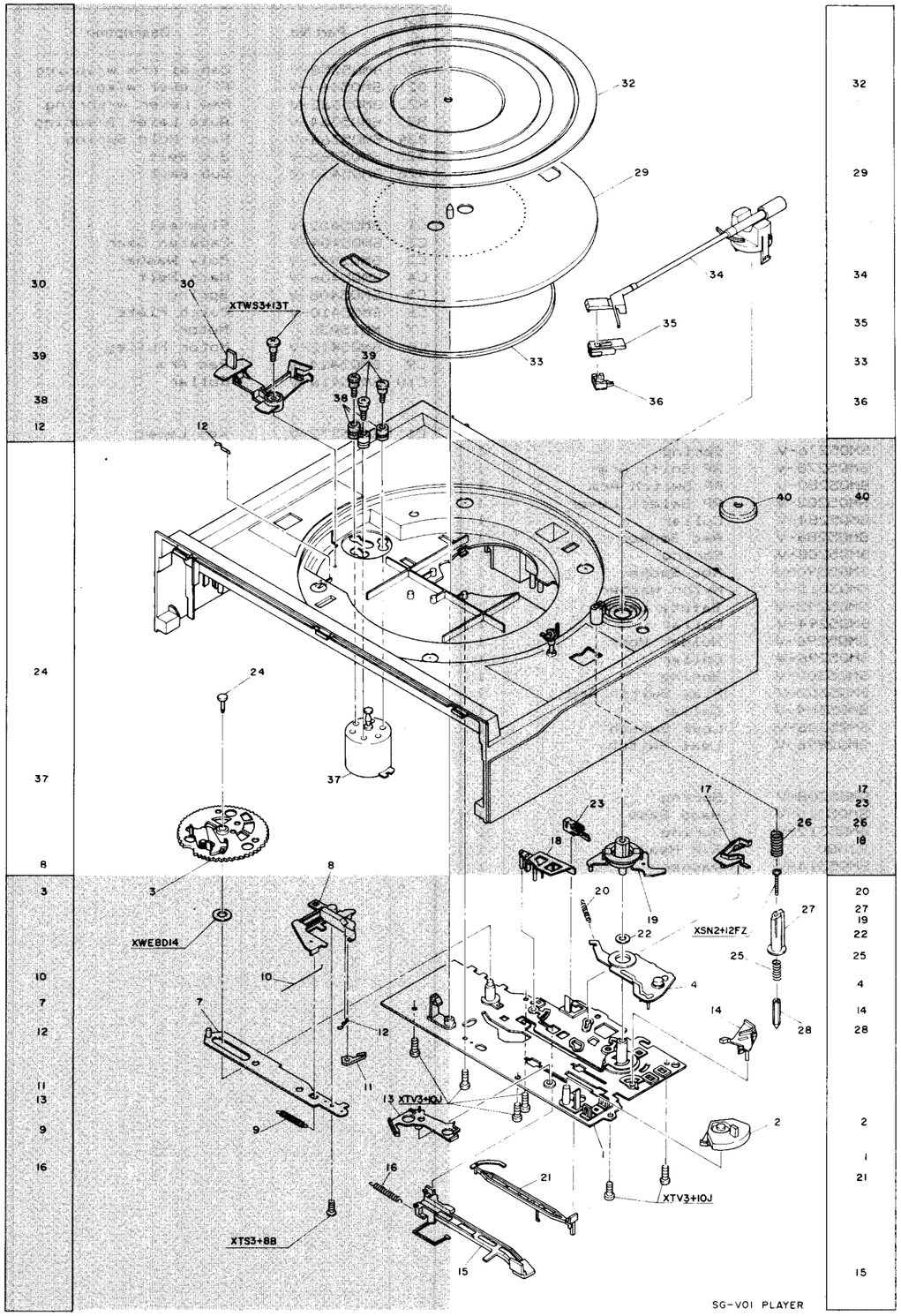
SJD8F02-1U

REPLACEMENT PARTS LIST OF CASSETTE TAPE DECK

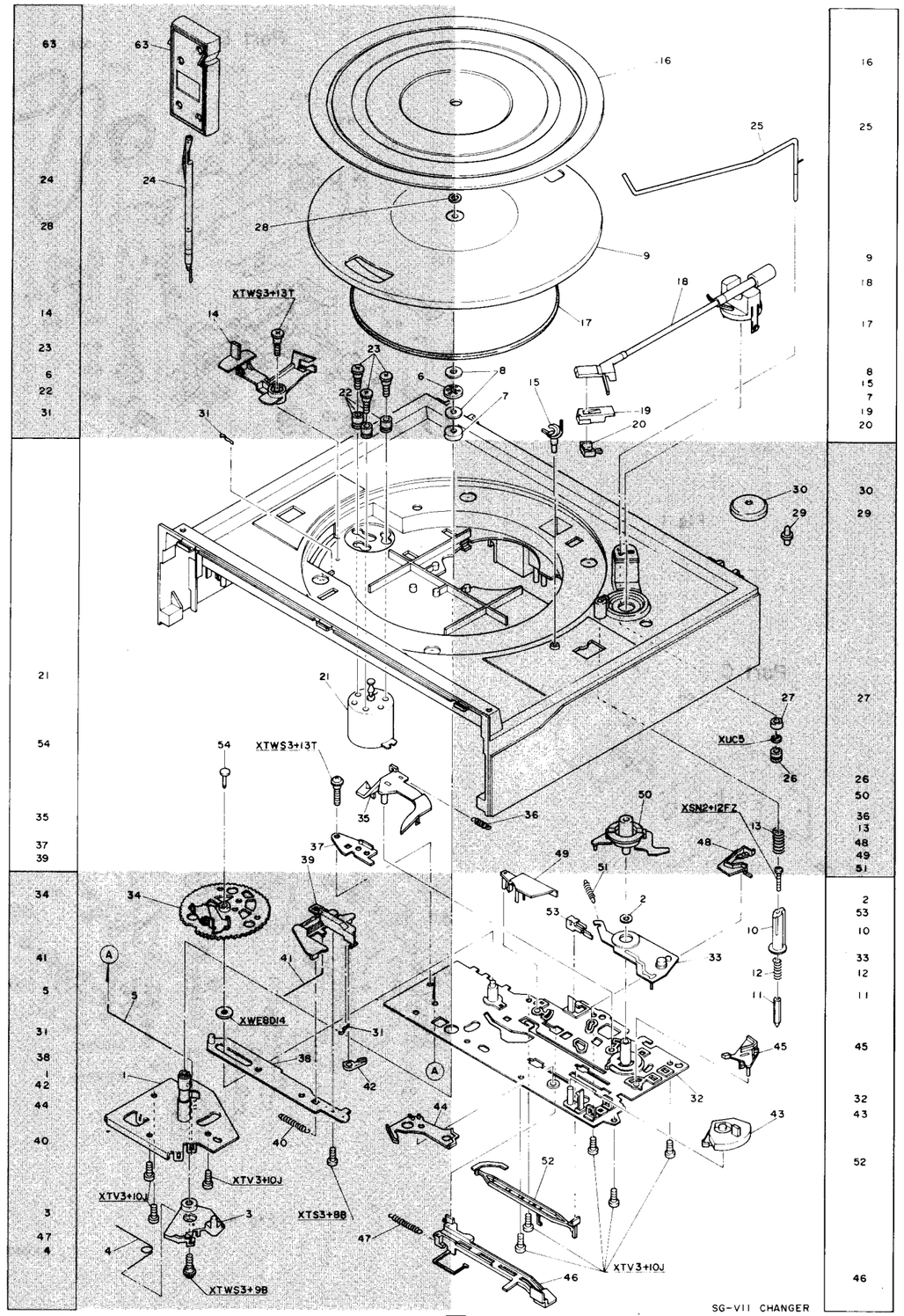
Ref. No.	Part No.	Description	Per Set
1	SMQ5232-V	Steel Ball	2
2	SMQ5234-V	Brake Shift	1
3	SMQ2858-V	Collar	1
4	SMQ5236-V	Take up Roller Ass'y	1
6	SMQ5240-V	Cassette Guide	2
7	SMQ5242-V	Panel Holder	2
8	SMQ5244-V	Pinch Roller Ass'y	1
9	SMQ5246-V	Spring	1
10	SMQ5248-V	Brake Arm Ass'y	1
11	SMQ5250-V	Spring	1
12	SMQ5252-V	Return Lever	1
13	SMQ5254-V	Spring	1
14	SMQ5256-V	RF Drive Gear	1
15	SMQ5258-V	RF Trigger Lever	1
16	SMQ5260-V	Spring	1
17	SMQ5262-V	Pause Trigger Lever	1
18	SMQ5264-V	Play Arm	1
19	SMQ5266-V	Spring	1
20	SMQ5268-V	Drive Gear	1
21	SMQ5270-V	RP Trigger Lever	1
22	SMQ5272-V	Spring	1
23	SMQ5274-V	Rec Lever	1
24	SMQ5276-V	Spring	1
25	SMQ5278-V	RP Shift Arm	1
26	SMQ5280-V	RP Switch Arm	1
27	SMQ5282-V	RP Select Lever	1
28	SMQ5284-V	Collar	1
29	SMQ5286-V	Rec Sensor	1
30	SMQ5288-V	Spring	1
31	SMQ5290-V	Rec Spoke	1
32	SMQ3012-V	Nylon Washer	1
33	SMQ5292-V	Safety Lever	1
34	SMQ5294-V	Collar	1
35	SMQ5296-V	Holder Hook	1
36	SMQ5298-V	Collar	1
37	SMQ5300-V	Spring	1
38	SMQ5302-V	Play Switch Arm	1
39	SMQ5304-V	Collar	1
40	SMQ5306-V	Leaf Switch	1
41	SMQ2996-V	Leaf Switch	1
A1	SMQ5308-V	Spring	1
A2	SMQ5310-V	Head Base	1
A3	SMQ5312-V	Spring	1
A4	SJH80	R/P Head	1
A5	SMQ5314-V	Washer	1
A6	SMQ5316-V	Screw	1
A7	SMQ5318-V	Collar	1
A8	SJH62	Erase Head	1
A9	SMQ5238-V	Spring	1
B1	SMQ5320-V	RF Arm Ass'y	1
B2	SMQ5322-V	RF Gear	1
B3	SMQ5324-V	Washer	6
B4	SMQ5326-V	FF Gear	1
B5	SMQ5328-V	RF Pulley Ass'y	1
B6	SMQ5330-V	Rew Gear	1
B7	SMQ5332-V	Poly Washer	2
B8	SMQ5334-V	Spring	1
B9	SMQ5336-V	Sensing Wheel Ass'y	1
B10	SMQ5338-V	FF Reel Base Ass'y	1
B11	SMQ5340-V	Spring	1
B12	SMQ5342-V	Rew Reel Base Ass'y	1
B13	SMQ5426-V	Auto Worm Gear	1
B14	SMQ5346-V	Shaft	1
B15	SMQ5348-V	Spring	1
B16	SMQ5350-V	Poly Washer	1
B17	SMQ5428-V	Relay Pulley Gear	1
B18	SMQ5354-V	Auto Arm	1
B19	SMQ5356-V	Spring	1
B20	SMQ5358-V	Cancel Arm w/spring	1
B21	SMQ5360-V	FF Lever w/spring	1
B22	SMQ5362-V	Rew Lever w/spring	1
B23	SMQ5364-V	Auto Lever w/spring	1
B24	SMQ5366-V	Pack Hold Spring	1
B25	SMQ5368-V	Sub Belt	1
B26	SMQ5430-V	Sub Belt	1
C1	SMQ5402-V	Flywheel	1
C2	SMQ5404-V	Capstan Gear	1
C3	SMQ2942-V	Poly Washer	1
C4	SMQ5406-V	Main Belt	1
C5	SMQ5408-V	Spring	1
C6	SMQ5410-V	Patch Plate	1
C7	MMI5A2L	Motor	1
C8	SMQ5412-V	Motor Pulley	1
C9	SMQ5414-V	Rec Arm	1
C10	SMQ5416-V	Collar	1
D1	SMQ5372-V	Key Lever	5
D2	SMQ5374-V	Pause Key Lever	1
D3	SMQ5376-V	Key Lever Shaft	1
D4	SMQ5378-V	Key Lever Spring	1
D5	SMQ5380-V	Spring	1
D6	SMQ5382-V	Pause Cam	1
D7	SMQ5384-V	Moving Plate	1
D8	SMQ5386-V	Spring	1
D9	SMQ5388-V	RF Switch Arm	1
D10	SMQ5390-V	Safety Arm w/spring	1
D11	SMQ5392-V	RP Safety Arm w/sp	1
D12	SMQ5394-V	Leaf Switch	1
D13	SMQ5396-V	Rec Operation Lever	1
D14	SMQ5398-V	Collar	1
D15	SMQ5306-V	Leaf Switch	1
D16	SMQ5400-V	Pause Switch	1
D17	SMQ5304-V	Collar	1
K1	SMQ4990	Tape Counter	1
K2	SMQ4066	Counter Belt	1
K3	SMQ4096	Eject Gear	1
K4	SMQ4996	Rec Spoke	1

SJD8F02-1U

PARTS LOCATION OF RECORD PLAYER (SG-V01)



PARTS LOCATION OF RECORD CHANGER (SG-V11)



REPLACEMENT PARTS LIST OF RECORD PLAYER AND RECORD CHANGER

RECORD PLAYER (SG-V01)

Ref. No.	Part No.	Description	Per Set
1	SJY402	Base Plate Assembly	1
2	SJY90074-2	Lever, Record Size	1
3	SJY416	Main Gear Assembly	1
4	SJY406	PU Moving Plate	1
7	SJY398	Operating Plate Ass'y	1
8	SJY90014-2	Bracket, Operating Plate	1
9	SJY90066-1	Spring A, Operating Plate	1
10	SJY90068-1	Spring B, Operating Plate	1
11	SJY90016	Operating Plate, Tone Arm	1
12	SJY90018-1	Spring Plate	2
13	SJY90020	Index Lever	1
14	SJY90022-1	Clamp Plate	1
15	SJY90224	Start Plate	1
16	SJY90302	Spring, Start Plate	1
17	SJY90026	Operating Plate A	1
18	SJY90028-4	Operating Plate B	1
19	SJY90030-1	Tone Arm Plate	1
20	SJY90072	Spring, Tone Arm Plate	1
21	SJY90032-1	Actuating Plate	1
22	SNW622-3	Washer	1
23	SSP66	Switch, Motor	1
24	SHR9174	Stopper Pin, Main Gear	1
25	SJY90160	Spring A, Lifter	1
26	SUS84-2	Spring B, Lifter	1
27	SJY5196-2	Lifter	1
28	SJY90034	Pin, Lifter	1
29	SJY530	Turntable Ass'y	1
30	SJY90076-2	Lever, Speed Select	1
32	SJY4064-1	Turntable Mat	1
33	SJY90080	Turntable Belt	1
34	EPA641STE	Tone Arm	1
35	EPC13STH	Cartridge	1
36	EPS41ST	Stylus	1
37	MMIV03	Motor Ass'y	1
38	SHG9092	Rubber Cushion	3
39	SJY9168	Screw, Motor	3
40	SJY5018-1	EP Adapter	1

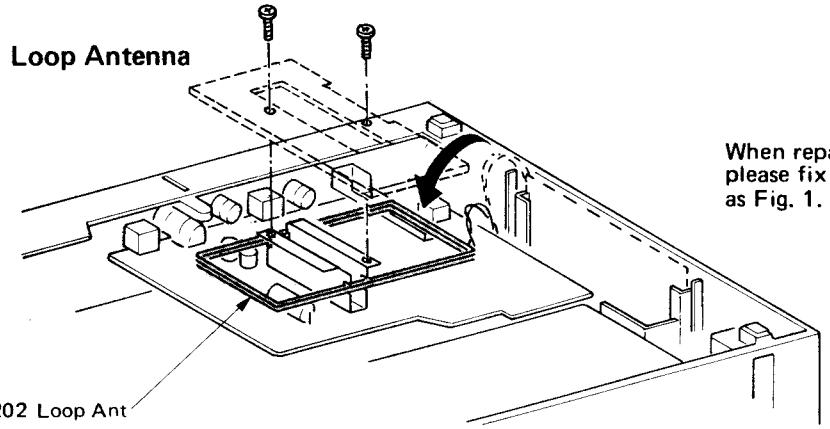
RECORD CHANGER (SG-V11)

Ref. No.	Part No.	Description	Per Set
1	SJY436	Turntable Shaft Ass'y	1
2	SNW622-3	Washer	1
3	SJY90116	Operating Lever A	1
4	SJY90120	Operating Lever Spring	1
5	SJY90122	Lock Spring	1
6	SJY90124	Ball, Turntable	1
7	SJY90126	Rubber Cushion, T/T	1
8	SJY90128	Washer, T/T	2
9	SJY532	Turntable Ass'y	1
10	SJY5196-2	Lifter	1
11	SJY90034	Pin, Lifter	1
12	SJY90160	Spring A, Lifter	1
13	SUS84-2	Spring B, Lifter	1
14	SJY90076-2	Lever, Speed Select	1
15	SJY342	Arm Rest Ass'y	1
16	SJY4066-1	Turntable Mat	1
17	SJY90080	Turntable Belt	1
18	EPA641STB	Tone Arm	1
19	EPC13STH	Cartridge	1
20	EPS41ST	Stylus	1
21	MMIV03	Motor Ass'y	1
22	SHG9092	Rubber	3
23	SJY9168	Screw, Motor	3
24	SJY428	Multiple-Plug Spindle	1
25	SJY90144	Record Holder Shaft	1
26	SHG9100	Rubber, Record Holder Shaft	1
27	SJY90150	Ring, Record Holder Shaft	1
28	SJY90158	Stop Ring, T/T	1
29	SJY7004	Manual Spindle	1
30	SJY5018-1	EP Adapter	1
31	SJY90018-1	Spring Plate	2
32	SJY432	Base Plate	1
33	SJY406	PU Moving Plate	1
34	SJY416	Main Gear Ass'y	1
35	SJY90154	Select Moving Plate	1
36	SJY90156	Spring	1
37	SJY90118	Operating Lever B	1
38	SJY398	Operating Plate Ass'y	1
39	SJY90014-2	Bracket, Operating Plate	1
40	SJY90066-1	Spring A, Operating Plate	1
41	SJY90068-1	Spring B, Operating Plate	1
42	SJY90016	Operating Plate, Tone Arm	1
43	SJY90074-2	Lever, Record Size	1
44	SJY90020	Index Lever	1
45	SJY90022-1	Clamp Plate	1
46	SJY90224	Start Rod	1
47	SJY90302	Spring, Start Rod	1
48	SJY90026	Operating Plate A	1
49	SJY90028-4	Operating Plate B	1
50	SJY90030-1	Tone Arm Plate	1
51	SJY90072	Spring, Tone Arm Plate	1
52	SJY90032-1	Actuating Plate	1
53	SSP66	Switch, Motor	1
54	SHR9174	Stopper Pin, Main Gear	1
63	SFVA701-1E	Auto 45rpm Adapter	1

SERVICE AID

■ Disposition of AM Loop Antenna

Fig. 1

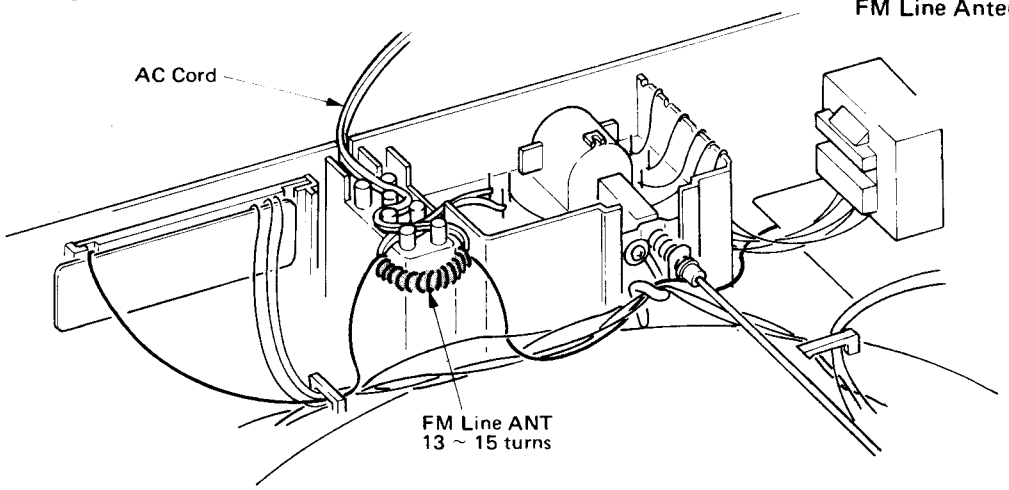


When repairing the P.C. Board, please fix Loop Antenna (L 202) as Fig. 1.

■ Disposition of FM Line Antenna

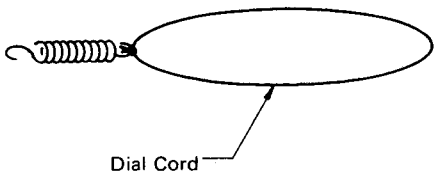
Fig. 2

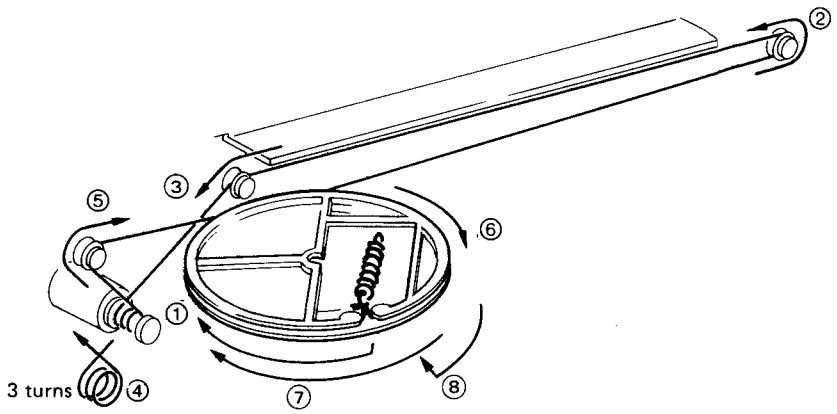
After servicing, please deal with FM Line Antenna as Fig. 2.



DIAL CORD STRINGING GUIDE

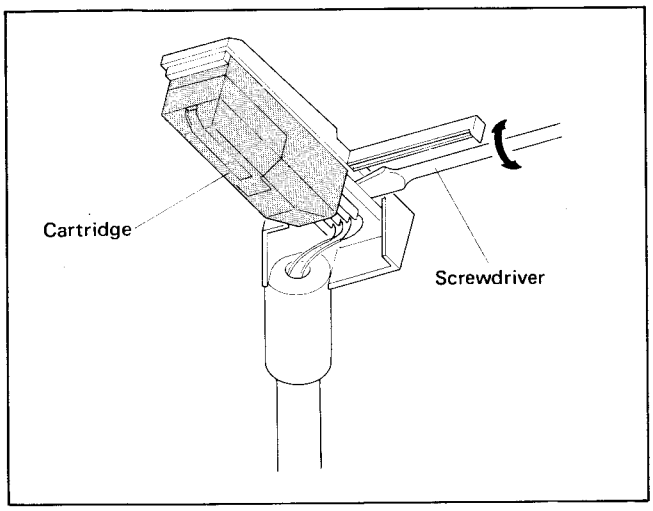
Note:
Dial Drum ..... Turn Fully Clockwise
Dial Cord Loop Length .... 108 cm



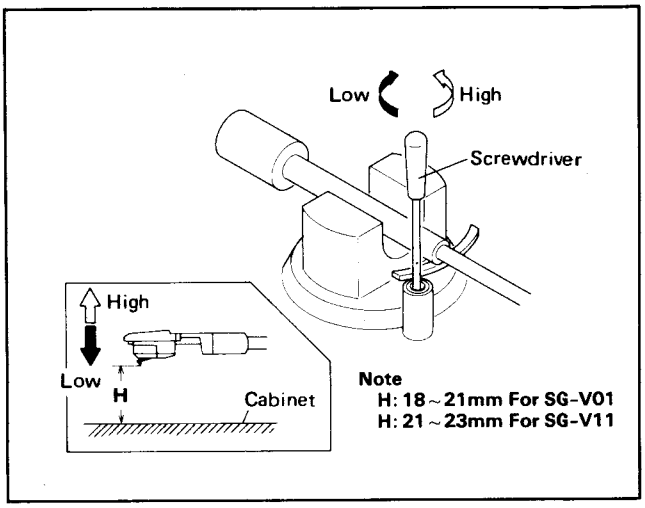


SERVICING THE RECORD PLAYER AND RECORD CHANGER

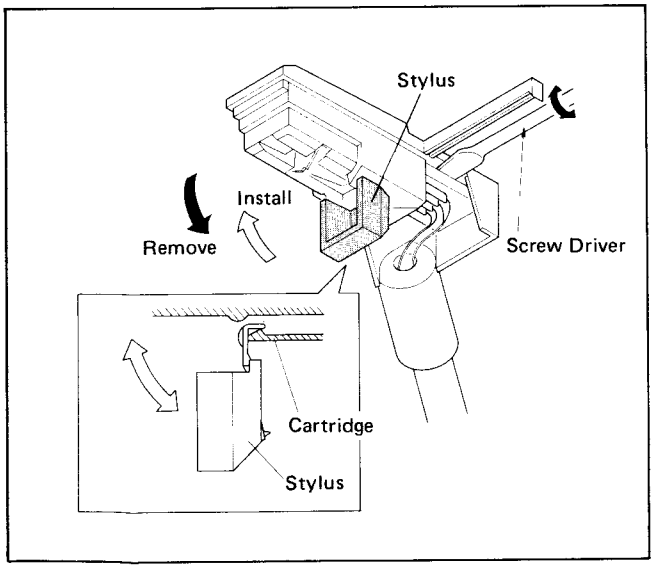
■ CARTRIDGE REPLACEMENT



■ TONE ARM LIFTING HEIGHT ADJUSTMENT

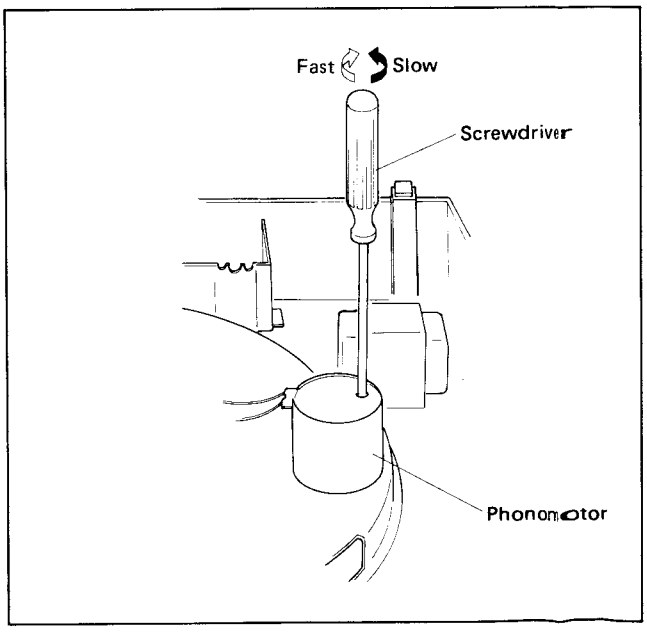


■ STYLUS REPLACEMENT



■ MOTOR SPEED ADJUSTMENT

Adjust the screw when the turntable rotation going out of normal speed.



■ STYLUS DROP POINT ADJUSTMENT